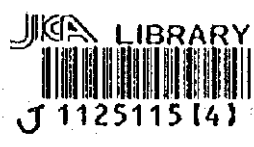


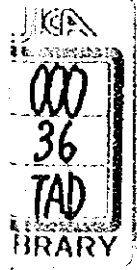
Outlines
in Japanese
Group
Annual Year 1996
training
courses
&
training
courses
specially
offered

**OUTLINE OF
GROUP TRAINING COURSES
&
TRAINING COURSES
SPECIALLY OFFERED
IN
JAPANESE FISCAL YEAR 1996**

COURSES STARTING BETWEEN APRIL 1996 AND MARCH 1997



**JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)**



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NOTE

This catalog gives the outline (not all detailed explanation) of each of the "Group Training Courses" and "Training Courses Specially Offered" conducted by JICA in Japan.

It is intended to describe particular points of the respective courses in the limited space of this catalog, and thus some of the common facts and conditions such as follows are not mentioned under each course.

**- common points not mentioned on each page -
(applicable to all courses)**

- 1) **PURPOSE:** to contribute to promotion of mutual understanding
- 2) **CURRICULUM:** Briefing/orientation session, country report, observation/study visit, and wrap-up/evaluation session are basic elements of curriculum.
- 3) **QUALIFICATION OF APPLICANT:**
 - (a) to be nominated by his/her government in accordance with the relevant procedures
 - (b) to have sufficient command of English (as for some courses, French) language
 - (c) to be in good health, both physically and mentally, to undergo the training (Pregnancy is regarded as a disqualifying condition.)
 - (d) not to be serving in the military

**OUTLINE OF
GROUP TRAINING COURSES
&
TRAINING COURSES
SPECIALLY OFFERED
IN
JAPANESE FISCAL YEAR 1996**

COURSES STARTING BETWEEN APRIL 1996 AND MARCH 1997

**JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)**



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GROUP TRAINING COURSES
 集団コース

DEVELOPMENT PLAN 開発計画

(Course No.)		
J-96-00171	Development Policies 開発政策	27
J-96-00453	Seminar on Economic Development Policies 経済政策セミナー	27

ADMINISTRATION 行政

J-96-00015	Seminar on Control of Drug Offences II 薬物犯罪取締セミナー II	27
J-96-00029	Crime Prevention (Treatment of Offenders) II 犯罪防止(矯正保護)II	27
J-96-00092	Crime Prevention (Senior Seminar) II 犯罪防止(上級)II	28
J-96-00110	Crime Prevention (The Administration of Criminal Justice) II 犯罪防止(刑事司法)II	28
J-96-00059	Local Government II 地方行政 II	28
J-96-00091	National Government Administration II 国家行政 II	28
J-96-00320	Seminar on National Government Administration (Senior Class Officials) 上級国家行政セミナー	29
J-96-00079	Traffic Police Administration Seminar 交通警察行政研修	29
J-96-00194	Seminar on Criminal Investigation (Organized Crime) 国際捜査セミナー(組織犯罪)	29
J-96-00342	Rescue and First Aid Techniques 救急救助技術	29
J-96-00362	Fire Fighting Techniques 消火技術	30
J-96-00395	Fire Service for Administrative Officers 消防行政管理者	30
J-96-00477	Disaster Prevention Administration 防災技術	30
J-96-00478	Fire Prevention Techniques 火災予防技術	30
J-96-00257	Government Auditing Seminar (Computer Auditing) 政府会計検査セミナー(コンピュータ会計検査)	31
J-96-00217	Seminar on Taxation (General Tax Course) 国際税務行政セミナー(一般租税コース)	31

GROUP TRAINING COURSES
集団コース

(Course No.)		
J-96-00115	Seminar on Taxation (Senior Tax Course) 国際税務行政セミナー(上級租税コース)	31
J-96-00123	Customs Techniques II 税関行政 II	31
J-96-00506	Environmental Administration 環境行政	32
J-96-00329	Environmental Engineering (Air Pollution Control) 環境技術(大気保全)	32
J-96-00448	Environmental Monitoring (Water Quality) 環境モニタリング(水質)	32
J-96-00449	Nature Conservation and Natural Parks Management 自然保護管理	32
J-96-00450	Lake Water Quality Management 湖沼水質保全	33
J-96-00468	System of Environment Management for Enclosed Coastal Seas 閉鎖性海域の環境管理技術	33
J-96-00289	Marine Pollution Surveillance and Control 海洋保全	33
J-96-00382	Air Pollution Control 大気汚染対策	33
J-96-00470	Air Pollution Source Monitoring Practice 大気汚染源モニタリング実習	34
J-96-00447	Measures to Reduce the Use of the Ozone Depleting Substances オゾン層破壊物質削減技術	34
J-96-00454	Environmental Radioactivity Analysis and Measurement 環境放射能分析	34
J-96-00476	Environmental Impact Assessment 環境影響評価	34
J-96-00311	Industrial Pollution Control Engineering 産業環境対策	35
J-96-00398	Industrial Waste Water Treatment Technique 産業廃水処理技術	35
J-96-00469	Domestic Waste Water Treatment Technique 生活排水対策	35
J-96-00060	Practical Statistics II 統計実務 II	35
J-96-00254	Automatic Data Processing for Trainers 研修指導官のためのADP	36
J-96-00399	Government Information Systems 行政情報システム	36
J-96-00301	Information Processing Personnel (Personal Computer Programmer) 情報処理要員養成(パソコン・プログラマー)	36
J-96-00391	Information Processing Personnel (Personal Computer Network System Designer (A)) 情報処理要員養成(パソコンネットワークシステム設計者(A))	36
J-96-00510	Information Processing Personnel (Personal Computer Network System Designer (B)) 情報処理要員養成(パソコンネットワークシステム設計者(B))	37
J-96-00502	Information Processing Personnel (Instructor (Personal Computer Based)) 情報処理要員養成(パソコン専任インストラクター)	37
J-96-00299	Information Processing Personnel (Instructor (Mainframe Based)) 情報処理要員養成(メインフレーム専任インストラクター)	37

(Course No.)	
J-96-00306	Information Processing Personnel (Senior System Analyst/Designer (A))..... 37 情報処理要員養成(上級システム・アナリスト(A))
J-96-00307	Information Processing Personnel (Senior System Analyst/Designer (B))..... 38 情報処理要員養成(上級システム・アナリスト(B))
J-96-00309	Information Processing Personnel 38 (Online Database System Designer (Mainframe Based (A)) 情報処理要員養成(オンラインデータベースシステム設計者(A))
J-96-00472	Information Processing Personnel 38 (Online Database System Designer (Mainframe Based (B)) 情報処理要員養成(オンラインデータベースシステム設計者(B))
J-96-00522	Information Processing Personnel (UNIX Database System Designer (A)) 38 情報処理要員養成(UNIXデータベース・システム設計者(A))
J-96-00509	Information Processing Personnel (UNIX Database System Designer (B)) 39 情報処理要員養成(UNIXデータベース・システム設計者(B))
J-96-00300	Information Processing Personnel (DP Division Manager) (Mainframe Based) 39 情報処理要員養成(情報処理部門管理者)
J-96-00431	Electronics Engineering (Microcomputer) 39 エレクトロニクス技術
J-96-00485	Promotion of Office Automation 39 OA化推進

PUBLIC UTILITY WORKS 公益事業

J-96-00100	Water Supply Engineering II 40 上水道施設 II
J-96-00167	Sewage Works Engineering II 40 下水道技術 II
J-96-00111	Solid Waste Management and Night Soil Treatment II 40 廃棄物処理 II
J-96-00487	Waste Management Practice 40 廃棄物処理実習

TRANSPORTATION AND TRAFFIC 運輸交通

J-96-00323	Administration System for Motor Vehicle 41 自動車行政制度
J-96-00388	Modernization of Cargo Transport (Physical Distribution) 41 物流近代化
J-96-00103	Seminar on Highway Construction II 41 ハイウェイセミナー II
J-96-00480	Project Planning for Urban Transport Infrastructure 41 都市交通プロジェクト計画
J-96-00462	Railway Management Planning 42 鉄道経営計画
J-96-00499	Seafarer's Management System 42 船員管理システム
J-96-00379	Marine Technique (Navigator) 42 航海技術(航海士)

GROUP TRAINING COURSES
集団コース

(Course No.)		
J-96-00380	Marine Technique (Engineer) 航海技術(機関士)	42
J-96-00148	Aids to Marine Navigation II 航路標識 II	43
J-96-00343	Maritime Search and Rescue Operation and Maritime Disaster Prevention 救難防災	43
J-96-00438	Liner Shipping Business 定期船実務	43
J-96-00440	Seminar on Port Administration and Management 港湾管理運営セミナー	43
J-96-00035	Port and Harbour Engineering II 港湾工学 II	44
J-96-00331	Development of Container Terminal コンテナ埠頭整備計画	44
J-96-00318	Seminar on Aviation Security 航空保安セミナー	44
J-96-00400	Seminar on Air Traffic Control 航空管制セミナー	44
J-96-00222	Urban Transport Seminar 都市交通セミナー	45
J-96-00245	Comprehensive Urban Transportation Planning 総合都市交通施設計画	45
J-96-00012	Seismology and Earthquake Engineering II 地震工学 II	45
J-96-00246	Seminar on Seismology and Earthquake Engineering 地震工学セミナー	45
J-96-00187	Meteorology II 気象学 II	46
J-96-00211	Science and Technology for Disaster Prevention 防災科学技術	46
J-96-00401	Volcanology and Volcanic Sabo Engineering 火山学・火山砂防工学	46

INFRASTRUCTURE 社会基盤

J-96-00071	Bridge Engineering II 橋梁工学 II	46
J-96-00209	Construction Engineering II (Civil Works) 建設施工 II	47
J-96-00385	Construction Project Manager 建設施工管理者	47
J-96-00232	Soil Mechanics and Foundation Engineering 土質及び基礎工学	47
J-96-00258	Regional Development Policy Seminar 国土開発セミナー	47
J-96-00402	Seminar on Administration for Disaster Prevention 防災行政管理者セミナー	48
J-96-00169	River and Dam Engineering II 河川及びダム工学 II	48

(Course No.)		
J-96-00027	City Planning II 都市計画 II	48
J-96-00325	Urban Development 都市整備	48
J-96-00230	Housing Policy 住宅政策	49
J-96-00349	Seminar on Improvement of Housing and Living Environments 住宅・住環境改善セミナー	49
J-96-00270	Architectural Engineering 建築技術	49
J-96-00479	Seminar on Advanced Technology of Construction 建設工事先進技術セミナー	49
J-96-00048	Survey and Mapping II 測量技術 II	50
J-96-00493	Hydrographic Survey (International Accredited Category B Course) 水路測量(国際認定B級)	50
J-96-00154	Physical Oceanographic Survey 海洋物理調査	50
	Nautical Charting (not conducted in JFY 1996) 海図作製(1996年度休止)	50

POSTAL SERVICE, TELECOMMUNICATION AND BROADCASTING 通信・放送

J-96-00180	Radio Frequency Monitoring II 電波監視 II	51
J-96-00098	Postal Executives' Seminar II 郵便幹部セミナー II	51
J-96-00403	Executives' Seminar on Postal Banking Services 為替貯金国際幹部セミナー	51
J-96-00024	International Telecommunication Services (Administration and Management) II 国際通信業務管理 II	51
J-96-00212	International Telephone Communication Engineering 国際電話通信技術	52
J-96-00267	International Data Communication Engineering 国際データ通信技術	52
J-96-00288	Data Communication Processing Engineering データ通信処理技術	52
J-96-00099	Satellite Communication Engineering II 衛星通信技術 II	52
J-96-00508	Digital Telecommunication Network Planning and Designing デジタル通信網計画設計	53
J-96-00404	Telecommunication Outside Plant Engineering Technique 通信線路技術指導者育成	53
J-96-00507	Seminar on Telecommunication Management 電気通信経営管理セミナー	53
J-96-00064	Telecommunication Executives' Seminar II 電気通信幹部セミナー II	53
J-96-00216	Telecommunications Network (Switching Engineering) 通信網(交換技術)	54

GROUP TRAINING COURSES
集団コース

(Course No.)		
J-96-00344	Digital Transmission Systems Engineering デジタル伝送技術	54
J-96-00333	Fiber Optic Outside Plant Engineering 光線路技術	54
J-96-00457	International Integrated Service Digital Network Telecommunication Engineering 国際ISDN通信技術	54
J-96-00500	Integrated Services Digital Network Communication Basic Engineering ISDN基礎通信技術	55
J-96-00458	Rural Telecommunication Engineering ルーラル通信技術	55
J-96-00459	CBT Courseware Development Technology for Telecommunication 電気通信CAI(コンピュータ利用による)教材作成技術	55
J-96-00495	Television Programme Production Engineering II テレビジョン番組制作技術II	55
J-96-00496	Television Programme Production テレビジョン番組制作	56
J-96-00497	Television Engineering テレビジョン放送技術	56
J-96-00498	Television Social Education Programme II テレビジョン社会教育番組II	56
J-96-00139	Broadcasting Executives' Seminar II 放送幹部セミナーII	56
J-96-00405	Audio Broadcasting Engineering 音声放送技術	57

AGRICULTURE 農業

J-96-00007	Agricultural Co-operatives II 農業協同組合II	57
J-96-00008	Agricultural Extension Service for Leader II 農業普及指導者II	57
J-96-00406	Women Leaders of Farm Household Development 農家生活水準向上女性指導者	57
J-96-00291	Rice Research Techniques 稲研究	58
J-96-00120	Vegetable Crops Production II 野菜生産II	58
J-96-00292	Vegetable Seed Production 野菜採種	58
J-96-00322	Sugar Cane Cultivation サトウキビ栽培	58
J-96-00237	Pesticide Utilization and Safety 農業の利用と安全性	59
J-96-00503	Integrated Pest Management for Plant Protection 植物保護のための総合防除	59
J-96-00275	Plant Genetic Resources 植物遺伝資源	59
J-96-00407	Plant Quarantine (Disinfestation of Fruit Flies) 植物検疫(ミバエ類殺虫技術)	59

(Course No.)		
J-96-00408	Soil Analysis and Improvement 土壌分析改良	60
J-96-00326	Effective Utilization of Tropical Agriculture and Forestry Resources 熱帯農林資源の有効利用	60
J-96-00474	Agricultural and Rural Development with Environmental Conservation 農業・農村開発環境保全	60
J-96-00484	Distribution of Fresh Fruits and Vegetables 青果物流通	60
J-96-00093	Irrigation and Drainage II 灌漑排水 II	61
J-96-00159	Agricultural Land and Water Resources Development II 農地水資源開発 II	61
J-96-00348	Irrigation Water Management 水管理	61
J-96-00409	Water Resources Development and Its Use in Arid Areas 乾燥地水資源の開発と利用	61
J-96-00050	Farm Mechanization II 農業機械化 II	62
J-96-00276	Farm Machinery Design 農業機械設計	62
J-96-00433	Agricultural Machinery Management 農業機械管理	62
J-96-00446	Farm Machinery Testing 農業機械評価試験	62
J-96-00514	Post-Harvest Rice Processing 米の収穫後処理技術	63

ANIMAL HUSBANDRY 畜産

J-96-00061	Poultry Production and Breeding Technology 鶏育種・生産技術	63
J-96-00494	Breeding and Artificial Insemination in Cattle 牛育種・人工授精	63
J-96-00317	Embryo Transfer for Cattle 受精卵移植技術	63
J-96-00444	Twinning and In vitro Fertilization Technology for Cattle 双子生産・体外受精技術	64
J-96-00334	Dairy Farming and Related Industries 酪農振興・検査技術	64

FORESTRY 林業

J-96-00335	Forest Soils 森林土壌	64
J-96-00445	Forest Management and Planning 森林管理計画	64
J-96-00501	Forest Research 森林研究	65

GROUP TRAINING COURSES
集団コース

(Course No.)

J-96-00386	Wood Based Materials Application Technology	65
	木質材料高度利用技術	

FISHERIES 水産

J-96-00518	Seminar on Fisheries Development Planning	65
	水産開発セミナー	
J-96-00520	Fisheries Management and Cooperatives (Intensive)	65
	漁業協同組合(インテンシブ)	
J-96-00215	Fishing Gear Development and Design	66
	漁具開発設計	
J-96-00432	Coastal Fishing Training and Extension	66
	沿岸漁業訓練普及	
J-96-00236	General Aquaculture	66
	養殖一般	
J-96-00336	Marine Ranch (Marine Farm) System	66
	海洋牧場システム	
J-96-00351	Control of Fish Disease and Environment in Aquaculture	67
	魚類防疫・環境管理	
J-96-00277	Hull and Engine Maintenance of Small Fishing Boat	67
	小型漁船の船体・機関保守	
J-96-00515	Handling and Processing of Fish and Marine Products	67
	漁獲物処理	
J-96-00517	Quality Assurance of Marine Food	67
	水産食品品質保証	

MINING AND MINERALS 鉱業

J-96-00269	Coal Mine Safety	68
	石炭鉱山保安	
J-96-00441	Mining and Metallurgy	68
	資源開発	
J-96-00412	Research and Development on Materials and Resources	68
	材料および資源に関する技術研究	

INDUSTRY 工業

J-96-00074	Senior Class Seminar on Small Industry Development II	68
	中小工業開発セミナー II	
J-96-00105	Implementation of TQC and Standardization Activities II	69
	TQC・標準化活動実践 II	
J-96-00316	Seminar on Industrial Standardization and Quality Control	69
	工業標準化・品質管理シニアセミナー	
J-96-00242	Examination Practice on Industrial Property	69
	工業所有権審査実務	
J-96-00261	Administration of Industrial Property	69
	工業所有権行政実務	

(Course No.)		
J-96-00513	Legal Metrology 法定計量	70
J-96-00235	Conformity Assessment Systems for Industry 認証検査制度	70
J-96-00505	Ceramic Kiln and Firing Technology セラミック窯炉及び焼成技術	70
J-96-00387	High Technology Materials Application (Fine Ceramics, Composites, Metals) ファインセラミックス応用技術	70
J-96-00268	Polymer and Chemical Technology 物質工学研究	71
J-96-00337	Catalytic Science 触媒科学研究	71
J-96-00357	Bioindustries バイオインダストリー	71
J-96-00381	Organic Fine-Chemicals Technology 有機ファインケミカルズ工学	71
J-96-00394	Polymer Materials and Technology 高分子材料工学	72
J-96-00285	Industrial Biotechnology 生命工学研究	72
J-96-00443	Advanced Materials 先進材料	72
J-96-00021	Qualified Metal Casting Technology II (Advanced Foundry Engineering) 高品位鋳物技術 II	72
J-96-00066	Surface Finishing Technology for Materials (New Processing in Metal Finishing, Corrosion Protection, Recycling & Waste Water Treatment) II 表面改質技術(金属・非金属・新素材及び防食)II	73
J-96-00256	Steel Properties and its Applications 鋼材の加工と加工特性	73
J-96-00260	Heat Treatment Technology 熱処理技術	73
J-96-00162	Maintenance of Construction Machinery II 建設機械整備 II	73
J-96-00310	Automatic Control (General Introduction) 自動制御(基礎)	74
J-96-00338	Machine Condition Diagnosis Technique (Inspection Technique for Plant Maintenance) 設備診断技術	74
J-96-00413	Plant Maintenance Management 保全管理	74
J-96-00175	High Technology of Metal Works II 金属加工高品質化技術 II	74
J-96-00266	Designing and Improvement of Production 生産システム改善技術	75
J-96-00383	Air-Conditioning Engineering 空調技術	75
J-96-00414	Material Handling System in the Plant for High Productivity 工場搬送システム	75
J-96-00415	Oil Hydraulics and Mechatronics 油圧とメカトロニクス	75

GROUP TRAINING COURSES
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(Course No.)		
J-96-00416	Inspection and Testing Techniques for Household Electrical Appliances 家庭用電気製品検査技術	76
J-96-00464	Ship Safety and Marine Pollution Prevention -Implementation of the International Conventions- 船舶安全・海洋汚染防止	76
J-96-00475	Automobile Safety and Pollution Control Technology 自動車の安全・公害対策技術	76
J-96-00488	Renovation of Industrial Equipment 設備のリノベーション	76
J-96-00417	Inspection and Testing Technique for Textile Products 繊維製品検査技術	77
J-96-00239	Packaging Engineering 包装技術	77
J-96-00366	Advanced Industrial Technology 産業技術研究	77
J-96-00363	Industrial Pollution Control Research 産業公害防止	77

ENERGY エネルギー

J-96-00315	Energy Conservation 省エネルギー	78
J-96-00418	Energy Management エネルギー管理	78
J-96-00055	Hydro-Electric Power Engineering II (for Civil Engineers) 水力発電 II(土木)	78
J-96-00352	Operation and Maintenance of Coal-Fired Thermal Power Plants 石炭火力発電	78
J-96-00419	Nuclear Power Generation 原子力発電	79
J-96-00153	Electric Power Management II 電気事業経営 II	79
J-96-00512	Electric Power Distribution System Management 配電システム管理	79
J-96-00312	Coal Science and Technology 石炭資源開発・利用	79
J-96-00353	Coal Mining and Preparation 採炭・選炭技術	80
J-96-00303	Nuclear Technology 原子力基礎実験	80
J-96-00354	Seminar on Nuclear Safety and Regulation 原子力安全規制行政セミナー	80
J-96-00442	Geothermal Energy (Advanced) 地熱エネルギーアドバンス	80
J-96-00482	Radiological Protection for Radiation Safety Officers at Nuclear Facilities 放射線安全管理実務者	81

(Course No.)

COMMERCE AND TRADE 商業・貿易

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一般特設コース



(Course No.)

- J-96-03302 Working Environment Improvement Technology 142
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- J-96-03275 Seminar on Introduction to Japan Disaster Relief Activities and Disaster Prevention System 142
国際緊急援助隊及び防災体制紹介セミナー(アジア・大洋州)

GROUP TRAINING COURSES

(集團コース)



DEVELOPMENT POLICIES

Sep. 3, '96 - Mar. 19, '97, 12 participants

開発政策

J-96-00171

- PURPOSE** The purpose of the course is to train the participants to learn the way of applying development economics to development planning in participating countries. The participants will be introduced to (1) development economics in general (2) national and regional development planning, and the interrelationship of individual projects, using case studies of developing countries and Japan, (3) the theory of project appraisal and planning by case studies so as to apply new knowledge to the workshops as practice.
- MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course. (1) macroeconomics and development economics (2) theories and techniques of micro project planning (3) macro development planning (4) Japanese economic development (5) introduction to empirical analysis (6) macro-sectoral workshop (7) Final Report. All the participants will be requested to write a research paper based on the knowledge and techniques of economic analysis.
- QUALIFICATION OF APPLICANT** (1) working on the planning or implementation of national or regional development projects and policy, and preferably be under 35 years of age (2) has an undergraduate degree in economics or business administration as well as basic experience and knowledge regarding development projects (3) has a good background of mathematics (4) has a sufficient command of English (scoring more than 550 on the TOEFL or its equivalent)
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Development Center of Japan (IDC)

SEMINAR ON ECONOMIC DEVELOPMENT POLICIES

June 4, '96 - July 28, '96, 16 participants

経済政策セミナー

J-96-00453

- PURPOSE** This seminar is designed to introduce Japan's experiences of economic development policies to the participants, and derive some relevance for their further development planning through lectures, report presentations, discussions and field trip.
- MAIN FEATURES OF CURRICULUM** This seminar covers the following. (1) Country Report presentation and discussion (2) lecture-cum-discussion (a) macroeconomic aspects (i) Japan's economic development (ii) economic planning in Japan (iii) trade and development (iv) infrastructure investment and economic development (v) role of government in economic development (vi) industrial policy of Japan (vii) technology development of Japan (viii) human resources development in Japan (ix) financial development (x) social aspect of economic development (b) sectoral aspects (xi) agricultural development in Japan (xii) linkage between agricultural and industrial development (3) final report writing, presentation, and revision.
- QUALIFICATION OF APPLICANT** (1) central government planner engaged in economic development planning and have at least 7 years' occupational experience in this field (2) have an academic background in economics or those having proper experience and knowledge on economic policy and planning (3) between 30 and 40 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Economic Planning Agency (EPA) (3) Japan Research Institute

SEMINAR ON CONTROL OF DRUG OFFENCES II

Oct. 13, '96 - Oct. 30, '96, 18 participants

薬物犯罪取締セミナーII

J-96-00015

- PURPOSE** The purpose of the seminar is to study effective and practical measures to eradicate drug offences as well as to further intensify international cooperation and deepen mutual understanding among the nations concerned, through discussion and exchange of experiences.
- MAIN FEATURES OF CURRICULUM** This seminar covers the following topics. (1) lecture (a) police activities in Japan (b) current trends and situation in drug offences and their countermeasures in Japan (c) Japanese organized crime syndicates (Yakuza) (2) presentation and discussion (a) major drug problems facing each society (b) current situation of drug trafficking in each country (c) way to improve international investigative cooperation (d) laws and regulation (confiscation of proceedings, etc.) (e) investigative methods/techniques (f) deportation procedures
- QUALIFICATION OF APPLICANT** (1) official in the rank of director of division or its equivalent in charge of drug law enforcement at the central government (2) have experience of more than three years in drug law enforcement (3) have knowledge of identification techniques
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Police Agency (NPA)

CRIME PREVENTION (TREATMENT OF OFFENDERS) II

Apr. 8, '96 - July 7, '96, 15 participants

犯罪防止(矯正保護)II

J-96-00029

- PURPOSE** The purpose of the course is to provide the participants with an opportunity to study and discuss various contemporary problems concerning non-custodial measures for offenders.
- MAIN FEATURES OF CURRICULUM** This course is mainly conducted in the form of discussions based upon the knowledge and experience of the participants with the advice of the faculty and visiting experts. A characteristic feature of the course is group discussions, through which the knowledge and experience of the participants will be utilized to the fullest extent. The major training programmes for the course are as described below. (1) comparative study on the effective treatment of drug offenders and juvenile delinquents (2) group workshops on topics selected by the participants (3) lectures by specialists on subjects relating to the main theme of "Effective Treatment of Drug Offenders and Juvenile Delinquents" and other subjects of general interest. (4) Visits to several relevant institutions and agencies. (5) cultural and other programmes.
- QUALIFICATION OF APPLICANT** (1) holding a relatively senior position in a central bureau, department or field agency concerned with the treatment of offenders, and has at least five years of practical experience in one's field (2) university graduate or equivalent (3) over 26 and under 50 years of age
- TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

CRIME PREVENTION (SENIOR SEMINAR) II

Jan. 20, '97 - Mar. 2, '97, 20 participants

犯罪防止(上級)II

J-96-00092

- 1. PURPOSE** The purpose of the seminar is to provide the participants with the opportunity to exchange information on the current situation and characteristics of organized crime in each country, to discuss various issues regarding organized crime and thus to formulate efficacious and appropriate policies to combat organized crime on a national and international level.
- 2. MAIN FEATURES OF CURRICULUM** To achieve the above purpose, this course emphasizes discussions on the efficacious and appropriate criminal justice policies for organized crime control, innovative legislation for organized crime suppression, and development of international cooperation for organized crime control and the role of the United Nations, through which the participants will acquire the abilities in: (1) analyzing the current situation of organized crime, (2) exploring efficacious and appropriate criminal justice policies for organized crime control, (3) elaborating innovative legislation for the suppression of organized crime, and (4) studying international instruments to combat organized crime and examining effective ways and means for further development of international cooperation in this field. In the course, the participants will be divided into small groups chosen by themselves and given ample opportunity to exchange views and experiences on selected problems. The result of the discussions will be summarized and published.
- 3. QUALIFICATION OF APPLICANT** (1) high-ranking criminal justice administrator at the policymaking level whose duties are closely related to the main theme of the seminar, and the rank of divisional director level or above in the central bureau of the agencies concerned with criminal justice, e.g., Ministry of Justice, Ministry of Interior, Supreme Court, etc. (2) between 35 and 55 years of age with the expectation to continue to work in this field for a minimum period of two years
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

LOCAL GOVERNMENT II

May 7, '96 - July 17, '96, 10 participants

地方行政II

J-96-00059

- 1. PURPOSE** The purpose of the course is to contribute to the development and improvement of local government administration methodology in participating countries through introducing the roles, systems and functions of Japanese local government and providing opportunities to exchange ideas and information among the participants.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions, comparative studies, field studies in local governments and observation trips. (1) local government system in Japan (2) election system in Japan (3) local public administration (4) local public finance (5) regional development
- 3. QUALIFICATION OF APPLICANT** (1) university/college graduate or equivalent with occupational experience of more than seven years in the civil service relating to local public administration (2) between 30 and 40 years old (3) civil service personnel holding responsible government position (managerial or supervisory) and be promising candidate for the post of top management in the local government or that of senior management in the central government in the future
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Local Autonomy College
- 5. REMARKS** (1) Country Reports will be highly utilized both for the selection of participants and for the comparative studies.

CRIME PREVENTION (THE ADMINISTRATION OF CRIMINAL JUSTICE) II

Aug. 26, '96 - Nov. 24, '96, 15 participants

犯罪防止(刑事司法)II

J-96-00110

- 1. PURPOSE** The purpose of the course is to provide the participants with an opportunity to study and to discuss contemporary problems concerning crimes and their effective countermeasures.
- 2. MAIN FEATURES OF CURRICULUM** To achieve the above purpose, the course emphasizes the discussions on crime prevention activities, effective investigation of urban crime, urbanization and juvenile delinquency, and role of criminal justice in protecting environment, through which the participants will acquire the abilities in (1) analyzing the present situation of urban crime and to find possible measures to prevent it, (2) examining the effective measures to cope with difficulties in criminal justice administration related to urban crime, (3) searching the effective juvenile justice administration, (4) collecting enough information on legislation regarding environmental crime, (5) understanding what role criminal justice administration should play in protecting the natural environment. In the course, the participants will be divided into small groups chosen by themselves and given ample opportunity to exchange views and experiences on selected problems. The result of the discussions will be summarized and published.
- 3. QUALIFICATION OF APPLICANT** (1) hold a relatively senior position in a central bureau, department or field agency concerned with investigation, prosecution, trial or prevention of crime or treatment of offenders, and who has at least eight years of practical experience in one's field plus a university degree or equivalent (2) not more than 50 years of age
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

NATIONAL GOVERNMENT ADMINISTRATION II

May 14, '96 - June 30, '96, 10 participants

国家行政II

J-96-00091

- 1. PURPOSE** The main purposes of this course are: (1) to assist participants in seeking better ways to improve public administration in order to assure efficient formation of policy (2) to introduce them to modern public administration practices appropriate to economic and social development.
- 2. MAIN FEATURES OF CURRICULUM** This course focuses on the early stage (fundamental phase) of modernization in development countries with reference to the Japanese experience after the Meiji Restoration (1868). It covers the following topics. (1) modernization in Japan (a) public administration and civil service system (b) modernization process (2) fundamental policy areas for modernization - case study (lectures on the policy process of specified cases will be given with reference to previously made observations of actual policy implementation.) This year's case study will come from the following subjects: (a) educational system (b) developmental policy for industries (c) infrastructure building - road construction (d) agricultural development (e) local autonomy system (3) fundamental policy areas - framework analysis (a) role of public administration for development (b) policy process (c) human resource management (d) financial management (4) modernization of public administration in participating countries - discussion (a) modernization of educational system (b) developmental policy for industries (c) improvement of human resource management in the public sector.
- 3. QUALIFICATION OF APPLICANT** (1) government officer on a level of division assistant director in principle, promising to be a senior member of the staff in the national government offices, and be related to policy formation (2) university graduate or equivalent, with occupational experience of five years or more in public administration (at least two years of experience in the national government) (3) not less than 30, and not more than 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Personnel Authority

**SEMINAR ON NATIONAL GOVERNMENT
ADMINISTRATION (SENIOR CLASS OFFICIALS)**

Nov. 7, '96 - Dec. 14, '96, 10 participants

上級国家行政セミナー

J-96-00320

- 1. PURPOSE** The purposes of this seminar are: (1) to introduce participants to recent trends in public administration and policy formation (2) to assist them in considering methods of flexible and appropriate policy formation as well as its implementation in varying stages of socio-economic development.
- 2. MAIN FEATURES OF CURRICULUM** As the targeted period of development, this seminar focuses on the take-off stage of modernization referring to the Japanese experience in the period of her rapid economic growth after World War II. It covers the following topics: (1) socio-economic development and government administration in Japan (a) public policies for development in selected areas (b) organisation of government (c) civil service system (2) bureaucracy and socio-economic development (a) economic development in developing countries (b) role of government in socio-economic development (c) human resources development (d) merits and demerits of bureaucracy for the development of a country
- 3. QUALIFICATION OF APPLICANT** (1) senior class official (division director or above involved in policy formation) (2) university graduate or equivalent, with occupational experience of more than ten years (at least two years experience in the national government) (3) between 40, and 50 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Personnel Authority

**SEMINAR ON CRIMINAL INVESTIGATION
(ORGANIZED CRIME)**

Apr. 2, '96 - Apr. 26, '96, 10 participants

国際捜査セミナー(組織犯罪)

J-96-00194

- 1. PURPOSE** This seminar is designed to contribute to further development of knowledge and techniques of criminal investigation, namely by: (1) providing participants with common arena for study and discussion of problems and issues concerning criminal investigation, focusing on organized crime, and (2) familiarizing participants with the system, equipment and facilities for criminal investigation and identification presently in operation in Japan.
- 2. MAIN FEATURES OF CURRICULUM** This seminar covers the following topics: (1) lecture (a) management of police organization in Japan (b) investigation of organized crime (c) investigation of drug offences (d) firearms control (e) community police activities (2) Country Report presentation and discussion
- 3. QUALIFICATION OF APPLICANT** (1) commanding police officer (superintendent, lieutenant colonel, or a higher position) in charge of criminal investigation in the central police organization (2) between 35 and 50 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Police Agency (NPA)

TRAFFIC POLICE ADMINISTRATION SEMINAR

Nov. 4, '96 - Dec. 8, '96, 12 participants

交通警察行政研修

J-96-00079

- 1. PURPOSE** The purposes of the seminar are as follows: (1) introduce to participants traffic police administration in Japan through lectures and visits, (2) provide opportunity to exchange information on traffic police in participating countries, (3) study measures to solve traffic problems of mutual concern, thus to contribute to the betterment of traffic police administration in the each country.
- 2. MAIN FEATURES OF CURRICULUM** This seminar covers the following topics: (1) general subjects (lecture) (a) Japanese police system (b) chronological summary of road traffic measures (c) application of computers by the police (2) specialized subjects (lectures) (a) Japanese police system (b) traffic accidents statistics and analysis (c) traffic law enforcement (d) method for disposition of road traffic law violation (e) actuality and definitive implementation of traffic control (f) traffic control & monitoring system and traffic safety facilities (g) traffic police activities on expressways (h) outline of driver licence system (i) measures to be taken for drivers (j) prevention of traffic accidents and traffic engineering (k) structure, maintenance and management of road (l) vehicle safety standards (m) aid to victims of automobile accidents and automobile insurance system (n) traffic count (3) presentation of Country Reports by participants and exchange of views on them among participants and related staff of NPA
- 3. QUALIFICATION OF APPLICANT** (1) director or chief police superintendent who supervises or deals with traffic police affairs in the central police organization (2) university graduate or equivalent
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Traffic Planning Division, Traffic Bureau, National Police Agency (NPA)
- 5. REMARKS** The course is conducted every other year. This year (in Japanese Fiscal Year 1996) this course will be conducted.

RESCUE AND FIRST AID TECHNIQUES

Aug. 20, '96 - Nov. 21, '96, 6 participants

救急救助技術

J-96-00342

- 1. PURPOSE** The purpose of the course is to provide participants with opportunities to acquire high-level knowledge and skills in rescue operations in Japan so that they can subsequently enhance the rescue techniques of training personnel engaged in rescue service in their respective countries.
- 2. MAIN FEATURES OF CURRICULUM** This course will be conducted mainly in the form of rescue practice on the following subjects: (1) physical strength development method (2) rope knotting (3) ascending, descending and traversing by rope (4) usage of rescue tools (5) entry technique (6) rescue technique (7) searching technique (8) first aid
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience (2) have experience in rescue service and expected to play key roles in this field (3) expected to become a leader in the field of rescue service (4) under 30 years of age in principle
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Fire Defence Agency (FDA), Ministry of Home Affairs
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

FIRE FIGHTING TECHNIQUES

July. 8, '96 - Oct. 25, '96, 10 participants

消火技術

J-96-00362

- 1. PURPOSE** The main purposes of this training course are as follows: (1) to enable participants to understand the outline of the organization, systems and roles of fire service administration, as well as the present situation of various disasters in Japan. (2) to help participants acquire knowledge and techniques to rescue people and extinguish fires such as high-rise building fires, hazardous and petroleum material fires, mountain fires, forest fires, ship fires and aircraft fires, at the early stage by commanding fire-fighting units on the ground, utilizing various fire engines, fire-fighting techniques and equipment.
- 2. MAIN FEATURES OF CURRICULUM** The course will be conducted in the form of lectures, practical training, visits, study trips, and presentation of Country Reports. Lectures will be given mainly by using textbooks and audio visual equipment such as video tapes and films. Practical training will be given by utilizing all kinds of fire engines, fire fighting equipment and tools. The training course is programmed to provide following knowledge and techniques: (1) rescuing people from different types of fires promptly and controlling fires by commanding fire fighting units effectively (2) roles and functions of fire engines and equipment in Japan (3) outline of the history and systems of fire service administration in Japan (4) present situation of disasters and measures to cope with disasters caused by urbanization (5) roles of fire service organizations and activities of fire fighting personnel in Japan (6) fire service administration of the participating countries by comparing and discussing the present situation of fire service administrative activities of respective countries
- 3. QUALIFICATION OF APPLICANT** (1) presently engaged in fire service, have at least five years' experience (2) university graduate or equivalent (3) 40 years of age or less
- 4. TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Fire Defence Agency, Ministry of Home Affairs (3) Kitakyushu City Fire Department, Fire Training Centre
- 5. REMARKS** (1) A compulsory 50 hour Japanese language course will be conducted prior to the technical training.

DISASTER PREVENTION ADMINISTRATION

Oct. 7, '96 - Dec. 1, '96, 6 participants

防災技術

J-96-00477

- 1. PURPOSE** The purpose of this course is to provide the participants with opportunities for studying disaster prevention administrative methods such as fire defence setup, systems and fire personnel training and education through lectures and observations, referring to Japanese fire service activities. The course will include seminars for the exchange of opinions about issues among participating countries, thereby contributing to further fire service improvement in each country.
- 2. MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course: (1) legislation governing disaster prevention (2) present status of disaster prevention systems (3) operation of disaster prevention systems (4) disaster information (5) role of fire service in disaster prevention (6) trend of recent disasters (7) improvement of disaster prevention systems
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) administrative officer or a person belonging to fire defense organization presently engaged in planning/drafting of Fire Service System, or in administrative section for the service implementation (3) not more than 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Fire Defence Agency (FDA), Ministry of Home Affairs

FIRE SERVICE FOR ADMINISTRATIVE OFFICERS

Sep. 17, '96 - Nov. 10, '96, 8 participants

消防行政管理者

J-96-00395

- 1. PURPOSE** The purpose of this course is to provide the participants with opportunities for studying administrative methods such as fire defence setups, system and fire personnel training and education through lectures, observations of Japanese fire service activities, and exchanging opinions about issues in the participating countries through seminars, thereby contributing to further fire service improvement in each country.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, country report and field trips. (1) administrative functions (a) effective administrative systems in fire service (b) optimum standards for fire equipment and personnel (c) effective communication and cooperation among fire authorities (2) fire service techniques (a) improving capabilities of fire personnel (b) development and improvement of fire protection equipment (3) dissemination of fire protection awareness (a) fire education for school children and citizens (b) current status of fire insurance (4) promotion of fire prevention (a) consent to and control over facilities and their management (b) control of hazardous materials (5) volunteer fire corps (a) fire equipment standards and on-duty casualty compensation systems (b) linkage with volunteer fire corps
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience (2) under 40 years of age (3) administrative officer or candidate for administrative officer, who is presently engaged in planning/drafting of Fire Service Systems, or in work in administrative sections for Fire Service Implementation
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Fire Defence Agency (FDA)

FIRE PREVENTION TECHNIQUES

Sep. 16, '96 - Dec. 2, '96, 6 participants

火災予防技術

J-96-00478

- 1. PURPOSE** The course is designed for an administrative officer or candidate engaged in planning/drafting of Fire Service System, in order to upgrade the knowledge about the Japanese administration for fire fighting and disaster prevention and the activities to prevent fires and natural disasters through lectures and observations.
- 2. MAIN FEATURES OF CURRICULUM** In the course, the emphasis is put on lectures, practical training and observations. The main themes are; (1) system of fire services and preventing disasters in Japan (2) system to prevent fires in advance (3) system to prevent natural disasters
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience (2) administrative officer or candidate for it, who is presently engaged in planning/drafting of Fire Service System, or in administrative section for Fire Service Implementation (3) not more than 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) Nagoya City Fire Department (3) Fire Stations in Nagoya City
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

**GOVERNMENT AUDITING SEMINAR
(COMPUTER AUDITING)**

Mar. 3, '97 - Apr. 6, '97, 12 participants

政府会計検査セミナー(コンピュータ会計検査) J-96-00257

- 1. PURPOSE** The purpose of this seminar is to give SAI (Supreme Audit Institution) auditors an opportunity to study and discuss computer audit aspects and techniques and thus contributes to SAI auditors' audit capabilities in this field.
- 2. MAIN FEATURES OF CURRICULUM** This seminar aims to introduce Japan's experience in computer auditing. The main themes are: (1) computer system in the Board of Audit (2) system audit and case study (3) evaluation of computer system (4) audit of computerized system (5) computer-assisted audit techniques
- 3. QUALIFICATION OF APPLICANT** (1) official of the Supreme Audit Institution, who have no less than ten years of audit experience (2) have basic knowledge of computer (3) have actual work experience of computer auditing (4) under 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Board of Audit

**SEMINAR ON TAXATION
(GENERAL TAX COURSE)**

Aug. 26, '96 - Dec. 8, '96, 20 participants

国際税務行政セミナー(一般租税コース) J-96-00217

- 1. PURPOSE** The purposes of this seminar are to contribute to the improvement of the tax systems and tax administrations of developing countries through transferring technical knowledge and skills of the Japanese tax system and tax administration, to have participants well-versed in Japanese tax administration, and to promote mutual understanding among participating countries.
- 2. MAIN FEATURES OF CURRICULUM** This seminar places major emphasis on the administration of internal taxes, and mainly covers: (1) public finance of Japan (2) outline of the Japanese tax system (3) outline of main taxes in Japan (4) operation of taxation department (5) efficient examination (6) tax dispute
- 3. QUALIFICATION OF APPLICANT** (1) official of the department in charge of tax administration except customs (2) under 40 years of age (3) have more than five years of occupational experience in tax administration or in planning of tax system (4) university graduate or equivalent
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) National Tax Administration

SEMINAR ON TAXATION (SENIOR TAX COURSE)

Sep. 9, '96 - Oct. 5, '96, 10 participants

国際税務行政セミナー(上級租税コース)II J-96-00115

- 1. PURPOSE** This seminar is conducted with the following purposes: (1) to contribute to the improvement of the tax system and tax administrations of developing countries through transferring technical knowledge and skills of the Japanese tax system and tax administration. (2) to have participants well-versed in Japanese tax administration, and to promote friendly relations among participating countries, including Japan.
- 2. MAIN FEATURES OF CURRICULUM** This seminar places major emphasis on the administration of internal taxes. It covers the following topics: (1) outline of public finance, tax system and tax administration in Japan (a) public finance of Japan (b) outline of Japanese tax system (c) tax administration in Japan (general introduction) (d) tax administration in Japan (detail) (i) system of assessment (ii) system of collection (iii) public relations on taxation (e) international taxation (2) presentation of Country Reports and round discussion topics of round table discussion: (a) system of assessment (b) system of collection
- 3. QUALIFICATION OF APPLICANT** (a) ranked as a senior-class official of the department in charge of tax administration except customs (Note: This seminar is designed for the Deputy Commissioner or Assistant Commissioner of the Head Office, the Commissioner or the Deputy Commissioner of the Regional Taxation Bureau, or the District Director of the Tax Office.)
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Tax Administration

CUSTOMS TECHNIQUES II

Aug. 27, '96 - Oct. 20, '96, 20 participants

税関行政II J-96-00123

- 1. PURPOSE** The purpose of the course is to contribute to the development and improvement of Customs techniques in participating countries through the introduction of the Japanese Customs system and techniques and carrying out comparative studies. At the same time, it aims at deepening mutual understanding and promoting friendly relationship among participating countries and Japan.
- 2. MAIN FEATURES OF CURRICULUM** The course covers following subjects: (1) organization and function of the Japanese Customs administration (2) Customs and tariff policy, and the procedures for the revision of tariff rates (3) export and import clearance procedures and those for postal items and containerized cargoes, and computerized clearance system (4) classification techniques under the Harmonized System (5) "Hozei" (bonded) area system (6) differences between the GATT Valuation Code and Brussels Definition of Value, and characteristics and modus operandi of the GATT Code (7) surveillance and control (8) provisions and Customs powers in connection with Customs offences, and the system for legal disputes and appeals concerning Customs administration
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) currently Customs officials at middle level (3) under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Custom and Tariff Bureau, Ministry of Finance (3) Tokyo, Yokohama, Kobe, Osaka and Nagoya Custom House

ENVIRONMENTAL ADMINISTRATION

Oct. 1, '96 - Nov. 23, '96, 10 participants

環境行政

J-96-00506

- PURPOSE** The purpose of the course is to introduce through lectures and observation of facilities, the Japanese comprehensive measures on environmental issues to administrators who are in charge of policy making on environmental administration in participating countries. This course also aims to contribute to the progress of environmental administration in developing countries by means of exchanging opinions concerning present conditions and prospects on environmental administration of each country.
- MAIN FEATURES OF CURRICULUM** This course is designed so that the participants would (1) understand the overall Japanese environmental administration including the technical progress, and (2) acquire the knowledge to manage the environmental administration of their countries in consideration of global environmental problems. The main subjects (tentative) are as follows: (1) framework and historical, technological background of Japanese environmental administration (2) economic approach to environmental administration (3) attitude toward global environmental problems both in Japan and other countries (4) environmental impact and development (5) technological field of environmental measurement (observation) (6) development site (observation) (7) present conditions and prospects in developing countries (8) action plan
- QUALIFICATION OF APPLICANT** (1) presently engaged directly in policy-drafting in environmental administration in the governmental or related public organization with experience of at least five years (2) university graduate or equivalent (3) under 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Global Environmental Department, Environmental Agency (3) Japan Environmental Sanitation Center

**ENVIRONMENTAL ENGINEERING
(AIR POLLUTION CONTROL)**

Jan. 27, '97 - Mar. 16, '97, 10 participants

環境技術(大気保全)

J-96-00329

- PURPOSE** The purpose of the course, from a technical point of view, is to contribute to the improvement of air pollution control policy making in the participating countries. It also covers socio-economic development and welfare aspects by giving technical training through lectures and observation tours on general condition of air pollution control.
- MAIN FEATURES OF CURRICULUM** This course aims to present Japanese experience in this field as a case study for preparation of comparative study and action plan. It mainly covers; (1) administration (2) principles of air pollution subjects (3) planning and countermeasures (4) measurement and assessment (5) comprehensive study
- QUALIFICATION OF APPLICANT** (1) technical official directly responsible for air pollution control administration at central or local governmental organizations and have more than three years of experience, (2) university graduate or equivalent
- TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Environment Agency (3) Japan Environmental Sanitation Center

**ENVIRONMENTAL MONITORING
(WATER QUALITY)**

Sep. 17, '96 - Nov. 9, '96, 10 participants

環境モニタリング(水質)

J-96-00448

- PURPOSE** The purpose of the course is to develop the knowledge of senior government researchers and technical officials or future candidates for such positions who are engaged in water quality monitoring for the promotion of preventive measures against water pollution. Through participation in this course, the participants will learn methods of planning water quality monitoring and fundamental techniques of water quality analysis as applied to rivers, lakes, reservoirs, and estuaries. Special applications for water-use facilities will also be covered.
- MAIN FEATURES OF CURRICULUM** The course is aimed to introduce methods of planning water quality monitoring, techniques of analyzing water pollutants, and administrative management of monitoring, therefore the course mainly consists of lectures, discussions, demonstration and laboratory exercise, and field-trips. The following major subjects will be covered in the course: (1) environmental administration in Japan, (2) significance of water quality monitoring, (3) water quality monitoring planning, (4) water quality analytical measurement techniques, (5) utilization of analytical data on water quality
- QUALIFICATION OF APPLICANT** (1) university graduate who majored in chemistry, chemical engineering, environmental engineering, environmental science, or equivalent (2) senior government researcher, technical official or future candidates for such positions with more than three years of occupational experience in the field of water pollution research and administration at the agencies of national or local governments, with emphasis on water quality monitoring (3) not less than 25 and not more than 35 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Environmental Training Institute, Environment Agency

**NATURE CONSERVATION AND
NATURAL PARKS MANAGEMENT**

Aug. 27, '96 - Oct. 1, '96, 10 participants

自然保護管理

J-96-00449

- PURPOSE** The purpose of the course is to provide government/ technical officials in charge of nature conservation and/or management administration with professional knowledge and techniques required for nature conservation and natural parks management. The course is also intended to introduce the Japanese experience and current conditions in this field and to provide the participants with principles and approaches for problem solution.
- MAIN FEATURES OF CURRICULUM** The course is focused on the introduction of Japanese administration in nature conservation and natural parks management and the information exchange among participants; therefore, the course is mainly conducted in the form of lectures, discussions, and observation tours. The following major subjects will be covered in the course: (1) basic concepts and framework of nature conservation and natural parks management, (2) present situation in participating countries, (3) techniques for research on nature, (4) management of nature
- QUALIFICATION OF APPLICANT** (1) technical official presently in charge of nature conservation and/or management administration in central or local governments with five or more years of experience in this field (2) university graduate or equivalent (3) not more than 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Nature Conservation Bureau, Environment Agency (3) Japan Wildlife Research Center

LAKE WATER QUALITY MANAGEMENT

Jan. 6, '97 - Mar. 23, '97, 10 participants

湖沼水質保全

J-96-00450

- PURPOSE** This course is intended for technical administrators and leading researchers engaged in the establishment and implementation of policies and measures for preservation and management of water quality of lakes (natural and artificial) in developing countries. Techniques needed for water quality management of lakes, such as measurement, prevention, estimation and control techniques at a higher level, will be introduced to the participants through lectures and practices. Participants are expected to acquire fundamental knowledge required for making plans and programmes for proper management of lake water quality. This course aims to contribute to the qualitative improvement and sound development of environmental conservation of lakes and reservoirs in participating countries.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on workshop practice. The main themes are: (1) lectures (a) environmental problems related to lakes and reservoirs (b) water pollution prevention techniques (c) water quality management (d) water pollution estimation techniques (e) environment management techniques (f) administrative measures for environmental preservation (2) practices (a) water treatment techniques (b) measurement techniques (c) environment management techniques
- QUALIFICATION OF APPLICANT** (1) technical administrator in charge of management of water quality management (with occupational experience of at least five years) who is expected to assume executive administrative posts in the field of water quality management in the future, OR researcher for water quality measurement laboratories (with professional experience of at least 5 years), who is expected to take a leading role for planning proper management of lake water quality in the future. (2) university graduate having majored in environmental engineering, limnology, chemistry, biology, or having equivalent technical knowledge (3) under 35 years of age
- TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) International Lake Environment Committee Foundation
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

MARINE POLLUTION SURVEILLANCE AND CONTROL

Aug. 15, '96 - Nov. 3, '96, 8 participants

海洋保全

J-96-00289

- PURPOSE** The course is organized for officials who are engaged, by profession, in the prevention of marine pollution. It introduces techniques for surveillance and control of marine pollution mainly caused by illegal discharge of waste materials, and for analysis of such substances as routine tasks. At the same time it introduces the official activities of Japan concerning the protection of marine environment.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures and laboratory work, focusing on surveillance and analysis of oil. The main themes are: (1) surveillance and control of marine environment (2) discrimination and identification of oil (3) oil sample analysis
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, or have an occupational experience of more than five years in the field of marine pollution prevention, (2) presently engaged in the above-mentioned field, (3) under 40 years of age
- TRAINING INSTITUTIONS** (1) Okinawa International Center (OIC), JICA (2) Maritime Safety Agency (3) 11th Regional Headquarters of Maritime Safety Agency

SYSTEM OF ENVIRONMENTAL MANAGEMENT FOR ENCLOSED COASTAL SEAS

Sep. 16, '96 - Dec. 4, '96, 6 participants

閉鎖性海域の環境管理技術

J-96-00468

- PURPOSE** The purpose of the course is to provide the officials in administrative bodies which are engaged in the environmental management of enclosed coastal seas with following: (1) technical knowledge related to environmental management strategies specifically applied to Seto Inland Sea, which would give the participants opportunities to examine possible applicabilities of these strategies to their respective countries. (2) an opportunity in which the participants can discuss with Japanese expert in environmental management field and exchange views and opinions.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of comprehensive knowledge on the following subjects through lecture, practice and field trip. (1) general view (2) phenomena and mechanism of water pollution (3) modeling (4) investigation and measurement (5) management techniques (6) environmental management policies (7) public awareness
- QUALIFICATION OF APPLICANT** (1) leading officer in administrative body presently engaged in environmental management of enclosed coastal seas (2) university graduate and/or those who have equivalent practical experience of not less than three years in the field of environment on enclosed coastal seas (3) not less than 26, and not more than 40 years of age
- TRAINING INSTITUTIONS** (1) Hyogo International Centre (HIC), JICA (2) Environmental Conservation Association of Seto Inland Sea (3) Environmental Science Institute of Hyogo Prefecture
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for several days.

AIR POLLUTION CONTROL

Sep. 2, '96 - Dec. 22, '96, 9 participants

大気汚染対策

J-96-00382

- PURPOSE** This course is intended for administrative engineers engaged in air pollution control measures in participating countries. Measurement techniques, emission source control techniques, dispersion calculation techniques, management techniques, etc. related to air pollution, all on an advanced level, will be introduced to the participants. It is expected that the course will help upgrade the technical ability of the participants, thus contribute to the prevention of environmental pollution in their respective countries.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japan's experience in the field of Air Pollution Control. The main themes are: (1) fundamentals of air pollution (2) laws and regulations (3) measurement technique (4) emission source control (5) management (6) application of dispersion models (7) planning of master plan related to comprehensive air pollution control
- QUALIFICATION OF APPLICANT** (1) administrative engineer with at least five years experience in the administration of air pollution prevention (2) between 30 and 40 years of age (3) university graduates or the equivalent
- TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Global Environment Centre Foundation (3) Environment Division, Environment and Public Health Bureau, Osaka City (4) Osaka City Institute of Public Health and Environmental Science
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

AIR POLLUTION SOURCE MONITORING PRACTICE

Sep. 2, '96 - Dec. 18, '96, 9 participants

大気汚染源モニタリング実習

J-96-00470

- PURPOSE** The purpose of the training course is to upgrade the technical skills of personnel who are currently engaged in air pollution monitoring practice.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japanese experience on air pollution control through air pollution monitoring practice such as ambient air and automobile exhaust gas, in order to acquire the knowledge and skills to enable participants to apply them to each country. The subjects covered in the course are: (1) basic theory on local administration (2) basic theory on environmental engineering and health effect by air pollution (3) administrative framework on air pollution control in Kitakyushu and Japan (4) practical training on ambient air quality monitoring (5) air pollution monitoring by biological methods (6) practical training on air pollution source monitoring (7) simulator operation in coal-fired thermal power station (8) monitoring methods of automobile exhaust gas
- QUALIFICATION OF APPLICANT** (1) engineers with three or more years of experience in air pollution source monitoring and/or equivalent technical knowledge (2) university graduate or equivalent (3) 40 years of age or less
- TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Kitakyushu City Government
- REMARKS** (1) A compulsory 25 hour Japanese language course will be conducted prior to the technical training.

MEASURES TO REDUCE THE USE OF THE OZONE DEPLETING SUBSTANCES

Jan. 21, '97 - Mar. 1, '97, 15 participants

オゾン層破壊物質削減技術

J-96-00447

- PURPOSE** The purpose of the course is to provide participants with the latest scientific knowledge and information, a legal framework and other policy measures, substitutes and alternative technologies, in relation to reducing the use of ozone depleting substances.
- MAIN FEATURES OF CURRICULUM** The participants are expected to acquire knowledge and information on the following: (1) state of ozone science and its research (2) outline of the Vienna Convention and the Montreal Protocol (3) policy measures for the protection of the ozone layer (4) substitutes for controlled substances (5) alternative technology to reduce consumption of ozone depleting substances
- QUALIFICATION OF APPLICANT** (1) presently engaged in a government organization administering either industrial policy or environmental policy related to CFCs (Chloro Fluoro Carbons) or other ozone depleting substances (2) university graduate or equivalent (3) from 30 to 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Ministry of International Trade and Industry (3) Japan Industrial Conference for Ozone Layer Protection (JICOP)

ENVIRONMENTAL RADIOACTIVITY ANALYSIS AND MEASUREMENT

Sep. 10, '96 - Oct. 20, '96, 5 participants

環境放射能分析

J-96-00454

- PURPOSE** The purpose of the course is to give the participants practical knowledge of environmental radioactivity analysis and measurement, and to give them an opportunity to learn the relevant techniques through lectures and practical exercises.
- MAIN FEATURES OF CURRICULUM** The course is aimed to introduce technology of environmental radioactivity analysis and measurement in Japan; therefore, the course mainly consists of lectures, laboratory exercises, and observations. The following major subjects will be covered in the course: (1) basic concepts, (2) sampling and pretreatment, (3) analysis and measurement for tritium, radioactive strontium, uranium and plutonium in environmental samples, (4) gamma ray spectrometry, (5) environmental gamma ray dose measurement, (6) others
- QUALIFICATION OF APPLICANT** (1) university/college graduate in science or technology, or equivalent (2) working in an organization concerned with environmental radioactivity analysis and measurement fields
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japan Chemical Analysis Center (JCAC)

ENVIRONMENTAL IMPACT ASSESSMENT

May 28, '96 - June 26, '96, 10 participants

環境影響評価

J-96-00476

- PURPOSE** In order to promote sustainable development in the world, it is imperative to execute appropriate environmental impact assessments. The purpose of the course is to transfer fundamental knowledge and technology on EIA (Environmental Impact Assessment) to technical administrators from participating countries through lectures on experiences of conducting EIA in recent years both in Japan and other countries, field trips, and discussions with experts practicing EIA in Japan.
- MAIN FEATURES OF CURRICULUM** The course is focused on introduction of Japanese administration and technology in EIA, activities of international organizations regarding EIA, and information exchange among participants; therefore, the course mainly consists of lectures, discussions, and observation tours. The following major subjects will be covered in the course is: (1) introduction to EIA, (2) EIA system and practice in Japan, (3) topics related to EIA (wildlife survey, infectious disease, communication techniques), (4) technology for EIA, (5) institutional framework for EIA
- QUALIFICATION OF APPLICANT** (1) technical administrator presently engaged in EIA in governmental or related public organization with experience of at least three years (2) university graduate or equivalent (3) under 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Planning and Coordination Bureau, Environment Agency (3) Overseas Environmental Cooperation Center

**INDUSTRIAL POLLUTION CONTROL
ENGINEERING**

June 10, '96 - Oct. 16, '96, 8 participants

産業環境対策

J-96-00311

- PURPOSE** Along with industrialization and urbanization, environmental pollution problems have been increasing in developing countries. Therefore, it is indispensable for those countries to develop countermeasures against industrial pollution. The purpose of this course is to enhance the capability of engineers who have experience in handling environmental problems.
- MAIN FEATURES OF CURRICULUM** Participants will attend lectures, training and factory tours to understand past and present environmental problems in Japan, as well as prevention and control measures executed by corporations. Through this course, participants will acquire basic knowledge, information and technology required for planning environmental administrative measures suitable for respective countries, and further, finding solutions for preventing environmental pollution. The major subjects covered in the course are: (1) health effects of environmental pollutants (2) environmental engineering (3) environmental administration (4) environmental pollutants measuring method (5) international cooperation in the field of the environment (6) environmental pollution control measures taken by industries (7) measures for improving the working environment
- QUALIFICATION OF APPLICANT** (1) have three years' occupational experience or more in the field of industrial pollution control (2) university graduates (faculty of engineering) or have the equivalent academic background (3) 40 years of age or less
- TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kyushu International Techno-cooperative Association (3) Kyushu Institute of Technology (4) University of Occupational and Environmental Health, Japan (5) Kitakyushu Municipal Government
- REMARKS** (1) A compulsory 25 hour Japanese language course will be conducted prior to the technical training.

**DOMESTIC WASTE WATER TREATMENT
TECHNIQUE**

Aug. 26, '96 - Dec. 12, '96, 9 participants

生活排水対策

J-96-00469

- PURPOSE** The purpose of this training course is to upgrade the administrative and managerial skills of technical administrators who are currently engaged in domestic wastewater treatment.
- MAIN FEATURES OF CURRICULUM** The training programme consists of lectures and practical field work on domestic wastewater management. The emphasis is put on providing participants with practical and applicable skills and knowledge as well as Japanese experience to help them to formulate their Action Plans, which are most appropriate for the current status of their respective countries. The subjects covered in the course are: (1) basic theory of local administration (2) basic theory of water quality conservation (3) administrative framework of water pollution control in Kitakyushu and Japan (4) basic exercise in water quality analysis (5) practical training in water supply (6) practical training in sewage/drainage treatment (7) practical training in human excreta treatment (8) practical training in jokaso system (9) outline of domestic refuse treatment (10) outline of river/waterway management in urban area
- QUALIFICATION OF APPLICANT** (1) technical administrator with three or more years of experience in domestic wastewater treatment and/or equivalent technical knowledge (2) university graduate or equivalent (3) 40 years of age or less
- TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kyushu International Techno-cooperative Association (3) Kitakyushu City Government
- REMARKS** (1) A compulsory 25 hour Japanese language course will be conducted prior to the technical training.

**INDUSTRIAL WASTE WATER TREATMENT
TECHNIQUE**

July 22, '96 - Dec. 4, '96, 8 participants

産業廃水処理技術

J-96-00398

- PURPOSE** In industrializing countries, environmental pollution due to industrial wastewater has become a serious problem. The purpose of this course is to enhance the capabilities of managers and engineers in charge of pollution control so as to take appropriate and cost-effective actions for solving pollution problems.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japanese experience in dealing with practical industrial wastewater treatment through lectures, discussions, practice, field studies and visits to related factories and industries. The major subjects covered in the course are: (1) introduction to water pollution prevention (2) basic theory of wastewater treatment (3) wastewater analysis (4) automatic control (5) fundamental planning of wastewater facilities (6) design and construction of wastewater treatment facilities (7) maintenance management of wastewater treatment facilities (8) wastewater control in enterprises
- QUALIFICATION OF APPLICANT** (1) either engineer in charge of wastewater treatment in governmental or municipal office, or site manager of these organization in charge of the field (2) university graduate specialized in chemical, mechanical, electrical or civil engineering or have the equivalent academic background (3) 40 years of age or less
- TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Kyushu Institute of Technology (4) Kitakyushu Municipal Government
- REMARKS** (1) A compulsory 25 hour Japanese language course will be conducted prior to the technical training.

PRACTICAL STATISTICS II

Sep. 24, '96 - Mar. 23, '97, 33 participants

統計実務II

J-96-00060

- PURPOSE** This course is focused on the training needs of official statisticians in government and is intended to contribute to the strengthening of National Statistical Offices of the developing countries in the ESCAP region.
- MAIN FEATURES OF CURRICULUM** This course consists of common subjects for all participants (for first three months) and individual project work (for latter three months). The common subjects concentrate on the following methodological aspects of statistics: (1) data collection (2) summarization and presentation of data (3) interpretation, analysis and dissemination. For the project work, each participant is to choose one of the following topics, and write a report on it for presentation at a seminar. They should choose a topic which is related to official statistics of their country. (a) demographic analysis (b) economic statistics and applied analysis (c) national accounts (d) statistical methods and sampling
- QUALIFICATION OF APPLICANT** (1) university graduate specialized in statistics, economics or sociology or equivalent (2) over 25 but under 35 years of age (3) have a sufficient knowledge of basic mathematics
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Statistical Institute for Asia and the Pacific (SIAP)
- REMARKS** This course is conducted according to the agreement between the Government of Japan and the United Nations, and organized mainly for ESCAP countries.

AUTOMATIC DATA PROCESSING FOR TRAINERS

May 7, '96 - July 14, '96, 20 participants

研修指導官のためのADP

J-96-00254

- PURPOSE** This course is designed for practicing statisticians who have some background in computing and/or are likely to become involved in the training of others in the use of computer software packages for data processing. The course aims at increasing the participants' depth of knowledge in selected software packages, developing their presentation skills and producing course plants that they can use upon return to their respective countries.
- MAIN FEATURES OF CURRICULUM** The curriculum consists of the following major subjects: (1) introduction to the various software packages available for different phases of data processing (2) principles involved in structuring courses in automatic data processing (3) general principles and techniques of training (4) use of specific software packages (presentation by participants)
- QUALIFICATION OF APPLICANT** (1) middle level statisticians with some computing experience who are expected to be trainers in statistical computing (2) under 40 years of age (3) university graduate in statistics or equivalent
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Statistical Institute for Asia and the Pacific (SIAP)
- REMARKS** This course is conducted according to the agreement between the Government of Japan and the United Nations, and organized mainly for ESCAP countries.

GOVERNMENT INFORMATION SYSTEMS

Jan. 21, '97 - Mar. 19, '97, 10 participants

行政情報システム

J-96-00399

- PURPOSE** The purpose of this course is to provide participants with the fundamental knowledge and methodology necessary for overall management, promotion and coordination of GIS, and to train such participants to implement GIS (Government Information Systems) efficiently in their respective countries.
- MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures and individual research work. The main topics of the lectures are: (1) present situation and policies for overall management and coordination of GIS (2) basic matters for construction of GIS (database, network, office automation, systems security, etc.) (3) trends of new information-oriented society (freedom of information, protection of privacy, etc.) (4) latest information technology. At the end of the course, each participant is to present the report written in their individual work.
- QUALIFICATION OF APPLICANT** (1) official who belongs to a government body responsible for overall management and coordination of Government Information Systems, or a government body in a state of planning, which shall be responsible or considered suitable for the task mentioned above (2) have the knowledge and skills in computer data processing, preferably with experiences in developing and/or managing Government Information Systems (3) under 40 years of age (4) university graduate or equivalent
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Office of Government Information Systems Planning Division, Administrative Management Bureau, Management and Coordination Agency

**INFORMATION PROCESSING PERSONNEL
(PERSONAL COMPUTER PROGRAMMER)**

Aug. 1, '96 - Nov. 25, '96, 11 participants

情報処理要員養成(パソコン・プログラマー)

J-96-00301

- PURPOSE** This course is designed to train personnel who work with personal computers in the office. Through lectures, workshop and observation tours, this course introduces concepts, basic knowledge and technical skills required for implementing small-scale information processing systems with personal computers.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, system development workshop. The main themes are: (1) personal computer introduction, (2) wordprocessing, (3) spreadsheet, (4) BASIC programming, (5) database, (6) system design, (7) test planning, (8) OSI and LAN outline, (9) system development workshop, (10) special lecture, (11) case study, (12) C programming (13) advanced computer technology.
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have a half year to two years programming experience which includes programming in software packages, such as database, spread sheet, and so forth (3) under 31 years of age
- TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(PERSONAL COMPUTER NETWORK SYSTEM DESIGNER (A))**

Apr. 11, '96 - Aug. 12, '96, 10 participants

情報処理要員養成(パソコンネットワークシステム設計者(A))

J-96-00391

- PURPOSE** This course is designed to train personnel who work with personal computers and will implement personal computer network system as a LAN (Local Area Network). Through lectures, workshop and observation tours, this course introduces function and designing method of personal computer network systems and LAN systems.
- MAIN FEATURES OF CURRICULUM** The emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. The main themes are: (1) personal computer introduction (2) spreadsheet (3) C programming (4) database (5) PC system design (6) test planning (7) network design outline (8) PC network system design (9) PC networking usage (10) UNIX fundamentals (11) PC networking usage (12) system development workshop (13) case study (14) CASB introduction (15) advanced computer technology
- QUALIFICATION OF APPLICANT** (1) person with one to three years experience in system development and maintenance (2) have more than three years' experience in programming in any one of the programming languages such as C, BASIC and so forth (3) university graduate or equivalent (4) under 36 years of age
- TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(PERSONAL COMPUTER NETWORK SYSTEM DESIGNER (B))**

Nov. 14, '96 - Mar. 24, '97, 10 participants

情報処理委員養成(パソコンネットワークシステム設計者(8)) J-96-00510

- 1. PURPOSE** This course is designed to train personnel who work with personal computers and will implement personal computer network system as a LAN (Local Area Network). Through lectures, workshop and observation tours, this course introduces function and designing method of personal computer network systems and LAN systems.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. The main themes are; (1) personal computer introduction (2) wordprocessing (3) spreadsheet (4) C programming (5) database (6) PC system design (7) test planning (8) data communication network design (9) PC network system design (10) PC networking usage (11) UNIX fundamentals (12) system development workshop (13) special lecture (14) case study (15) CASE introduction (16) advanced computer technology
- 3. QUALIFICATION OF APPLICANT** (1) person with one to three years experience in system development and maintenance (2) have more than 3 years' experience in programming in any one of programming language such as C, BASIC and so forth (3) university graduate or equivalent (4) under 36 years of age
- 4. TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(INSTRUCTOR (PERSONAL COMPUTER BASED))**

Oct. 3, '96 - Mar. 22, '97, 10 participants

情報処理委員養成(パソコン専任インストラクター) J-96-00502

- 1. PURPOSE** This course is designed to train personnel who are presently or will be engaged in programmer training using personal computers. Through the lectures, workshop, observation tours and training as an instructor, this course introduces both the technical skills such as programming, system design and development under personal computer environment, and instruction skills such as design, development and presentation of training courses.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. The main themes are; (1) introduction to personal computer (2) OS (Operating System) introduction (3) programme structure design (4) module design (5) test planning (6) database (7) C programming (8) UNIX fundamentals (9) network design outline (10) PC network system design (11) PC networking usage (12) project management (13) system development workshop (14) instructor training I - III (15) special lecture (16) case study (17) CASE introduction (18) advanced computer technology
- 3. QUALIFICATION OF APPLICANT** (1) (a) person with one to three years experience in system development and maintenance (b) person with more than three years' experience in programming in any one of programming languages as C, BASIC, and so forth. (2) person who will be an instructor for training personal computer programmers (3) university graduate or equivalent (4) under 36 years of age
- 4. TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(INSTRUCTOR (MAINFRAME BASED))**

Apr. 18, '96 - Sep. 30, '96, 12 participants

情報処理委員養成(メインフレーム専任インストラクター) J-96-00299

- 1. PURPOSE** This course is designed to train personnel who are presently or will be engaged in programmer training using mainframe. Through the lectures, workshop, observation tours and training as an instructor, this course introduces both the technical skills such as programming, system design and development under online database environment using mainframe computers, and instruction skills such as design, development and presentation of the training courses.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise and workshops. The main themes are: (1) database programming (2) online programming (3) system development workshop (4) instructor training
- 3. QUALIFICATION OF APPLICANT** (1) university graduate with more than one to three years experience in system development and maintenance (2) have more than three years experience in programming in any one of programming languages; such as COBOL, FORTRAN, PL/I, etc., and being able to make a programme in COBOL (3) person who will be an instructor for programmers training (4) under 36 years of age
- 4. TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(SENIOR SYSTEM ANALYST/DESIGNER (A))**

May 9, '96 - Aug. 24, '96, 11 participants

情報処理委員養成(上級システム・アナリスト(A)) J-96-00306

- 1. PURPOSE** This course is designed to train personnel who are presently or will be system analysts and designers. Through the lectures, group exercises and observation tours, this course provides the knowledge and skills necessary for analyzing, designing, developing and evaluating an online database system, and way of project management.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, hands-on exercise and workshops. The main themes are; (1) project management, (2) system analysis, (3) application program design, (4) program structure design, (5) test planning, (6) database design, (7) data communication network design, (8) reliable system design, (9) system estimation/evaluation, (10) system performance design simulation, (11) project management simulation, (12) system audit, (13) special lecture, (14) case study, (15) CASE introduction, (16) advanced computer technology.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equipment (2) have 3 to 7 year's experience in system development and programming experience in at least one of the high-level programming languages such as COBOL, FORTRAN, PL/I, and so forth. (3) person who will be in charge of system analysis, system design or system evaluation (4) under 36 years of age
- 4. TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(SENIOR SYSTEM ANALYST/DESIGNER (B))**

Oct. 17, '96 - Feb. 10, '97, 12 participants

情報処理委員養成(上級システム・アナリスト(B)) J-96-00307

- 1. PURPOSE** This course is designed to train personnel who are presently or will be system analysts and designers. Through the lectures, group exercises and observation tours, this course provides the knowledge and skills necessary for analyzing, designing, developing and evaluating an online database system, and way of project management.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, system development and workshops. The main themes are: (1) project management, (2) system analysis, (3) application program design, (4) program structure design, (5) test planning, (6) database design, (7) data communication network design (8) reliable system design, (9) system estimation/evaluation, (10) system performance design simulation, (11) project management simulation, (12) system audit, (13) special lecture, (14) case study, (15) CASE introduction, (16) advanced computer technology
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have 3 to 7 year's experience in system development and programming experience in at least one of the high-level programming languages such as COBOL, FORTRAN, PL/I, and so forth. (3) person who will be in charge of system analysis, system design or system evaluation (4) under 36 years of age
- 4. TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(ONLINE DATABASE SYSTEM DESIGNER (MAINFRAME BASED (A)))**

Apr. 18, '96 - Sep. 21, '96, 14 participants

情報処理委員養成(オンラインデータベースシステム設計者(A)) J-96-00309

- 1. PURPOSE** This course is designed to train personnel who will be in charge of online database system development under mainframe computer environment. Through lectures, workshop and observation tours, this course provides the knowledge and skills necessary for the designing and development of online database system applying relational type database.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. The main themes are; (1) module design (2) programme structure design (3) online database system introduction (4) database programming (5) TSS (time sharing system) usage (6) database design (7) online programming (8) test planning (9) online application system design (10) online system definition (11) database creation (12) system estimation/evaluation (13) reliable system design (14) data communication network design (15) system configuration design workshop (16) project management (17) database recovery design (18) system development workshop (19) special lecture (20) case study (21) introduction to personal computer (22) CASE (computer aided software engineering) introduction (23) UNIX fundamentals (24) advanced computer technology
- 3. QUALIFICATION OF APPLICANT** (1) (a) personnel who have one to three years' experience in system development and maintenance, and have more than three years' programming experience in at least one of the programming languages such as COBOL, FORTRAN AND PL/I (b) able to make a programme in COBOL (c) experienced in system design in batch processing system (2) university graduate or equivalent (3) under 35 years of age
- 4. TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(ONLINE DATABASE SYSTEM DESIGNER (MAINFRAME BASED (B)))**

Sep. 19, '96 - Mar. 1, '97, 14 participants

情報処理委員養成(オンラインデータベースシステム設計者(B)) J-96-00472

- 1. PURPOSE** This course is designed to train personnel who will be in charge of online database system development under mainframe computer environment. Through lectures, workshop and observation tours, this course provides the knowledge and skills necessary for designing and development of online database system applying relational type database.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. The main themes are; (1) module design (2) programme structure design (3) online database system introduction (4) database programming (5) TSS (time sharing system) usage (6) database design (7) online programming (8) test planning (9) online application system design (10) online system definition (11) database creation (12) system estimation/evaluation (13) reliable system design (14) data communication network design (15) system configuration design workshop (16) project management (17) database recovery design (18) system development workshop (19) special lecture (20) case study (21) Introduction to personal computer (22) CASE (computer aided software engineering) introduction (23) UNIX fundamental (24) advanced computer technology
- 3. QUALIFICATION OF APPLICANT** (1) (a) personnel who have one to three years' experience in system development and maintenance, and have more than three years' programming experience in at least one of the programming languages such as COBOL, FORTRAN and PL/I (b) able to make a programme in COBOL (c) experienced in system design in batch processing system (2) university graduate or equivalent (3) under 35 years of age
- 4. TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(UNIX DATABASE SYSTEM DESIGNER (A))**

May 30, '96 - Oct. 19, '96, 13 participants

情報処理委員養成(UNIXデータベースシステム設計者(A)) J-96-00522

- 1. PURPOSE** This course is designed to train personnel who are presently, or will be in charge of system development using database system under the UNIX environment. Through lectures, workshop and observation tours, this course provides the knowledge and skills necessary for design and development of online database system under the UNIX environment.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. The main themes are: (1) programme structure design (2) module design (3) test planning (4) UNIX fundamentals (5) UNIX programming utilities (6) C programming (7) UNIX system administration (8) UNIX database system usage (9) UNIX database programming (10) UNIX database design (11) UNIX database definition (12) UNIX database management (13) data communication network design (14) UNIX networking usage (15) project management (16) system development workshop
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have one to three years' experience in system development and maintenance, and have more than three year's programming experience in at least one of programming languages such as BASIC (3) having a plan to be a personnel who will develop a system under UNIX environment (4) under 36 years of age
- 4. TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(UNIX DATABASE SYSTEM DESIGNER (B))**

Oct. 24, '96 - Mar. 22, '97, 13 participants

情報処理委員養成(UNIXデータベースシステム設計者(B)) J-96-00509

- 1. PURPOSE** This course is designed to train personnel who are presently, or will be in charge of system development using database system under the UNIX environment. Through lectures, workshop and observation tours, this course provides the knowledge and skills necessary for design and development of online database system under the UNIX environment.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. The main themes are: (1) program structure design (2) module design (3) test planning (4) UNIX fundamentals (5) UNIX programming utilities (6) C programming (7) UNIX system administration (8) UNIX database system usage (9) UNIX database programming (10) UNIX database design (11) UNIX database definition (12) UNIX database management (13) data communication network design (14) UNIX networking usage (15) project management (16) system development workshop
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have one to three years' experience in system development and maintenance, and have more than three year's programming experience in at least one of programming languages such as BASIC (3) having a plan to be a personnel who will develop a system under UNIX environment (4) under 36 years of age
- 4. TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**INFORMATION PROCESSING PERSONNEL
(DP DIVISION MANAGER) (MAINFRAME BASED)**

Aug. 22, '96 - Oct. 27, '96, 10 participants

情報処理委員養成(情報処理部門管理者) J-96-00300

- 1. PURPOSE** This course is designed to train personnel who are presently managers under one year experience in the information processing division or who are appointed to the manager of the information processing division. Through lectures, group exercises and observation tours, this course provides the skills necessary for information processing system planning and its operation, and management of information processing division.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. The main themes are; (1) system analysis (2) test planning (3) project management (4) case study (5) project management simulation (6) DP division management (7) system audit (8) DSS (decision support system) (9) word processing (10) advanced computer technology
- 3. QUALIFICATION OF APPLICANT** (1) person with over three years experience in information processing system development and/or maintenance (2) presently a manager and have less than one year experience of data processing division management (3) personnel who are appointed to the manager of information processing division (4) university graduate or equivalent (5) about 30 - 45 years of age
- 4. TRAINING INSTITUTIONS** Okinawa International Centre (OIC), JICA

**ELECTRONICS ENGINEERING
(MICROCOMPUTER)**

Nov. 4, '96 - Feb. 12, '97, 10 participants

エレクトロニクス技術 J-96-00431

- 1. PURPOSE** This course is designed to provide technical knowledge and practical experience in digital logic, microcomputer hardware and software design.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on practical experience by participants. It mainly covers: (1) Z80 assembly languages (2) digital logic (3) microcomputer (4) P.I.D design (5) C language (6) LAN design
- 3. QUALIFICATION OF APPLICANT** (1) be able to operate DOS (Disc Operating System) and Text Editor of personal computers (2) be a design or development engineer who have experienced more than three years of developing and designing software or hardware for personal computer or microprocessor (3) have experience in developing programs by C-language or assembly language (4) have experience in designing and developing digital circuits or print circuited board (5) be over 25 and under 30 years of age
- 4. TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sapporo Electronics Center

PROMOTION OF OFFICE AUTOMATION

Aug. 5, '96 - Oct. 27, '96, 9 participants

OA化推進 J-96-00485

- 1. PURPOSE** Even though it may be desirable to automate office work through the use of computers and other equipment, a computer system alone will not provide excellent results if the present methods of conducting business transactions do not change. That is why this course seeks to deepen an understanding of new office work systems by re-evaluating present systems and planning methods before proceeding to the use of computers and automation. At the same time, the course will be interwoven with lectures, practice, and field trips dealing with the new way of thinking about and advancing with the use of computers in office automation. This course will foster capable staff with leadership qualities who will be able to reform and promote operations in their own countries.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on report presentation and discussions by participants, introduction of Japanese experience and basic theories of office automation. The main themes are; (1) concept and procedures for promotion of office automation in Japanese administration (2) how to advance record management (3) how to advance business system design (4) how to advance system planning (5) how to advance on-line system design (6) design and actual situation of data base systems (7) office LAN (office communication) (8) how to advance project management (9) end user computing (10) system inspection and security (11) case studies (company visits) (12) panel discussion (human resource development in promotion of office automation)
- 3. QUALIFICATION OF APPLICANT** (1) university graduates or equivalent (2) governmental administrators with more than five years' experience working with information oriented systems as end users (3) administrator involved in planning improved ways of undertaking office work, and planning the development of new structures through the effective use of present-day office automation and information systems. (or leader in the promotion of office automation). Exceptions: (a) not be administrators in computer (information system) departments, specializing in operations associated with computers, SE's (system engineers), or programmers (b) not necessary to be administrators with deep technical knowledge - but advisable to possess at least basic knowledge of personal computers know-how to operate "Database Management System" and "Spreadsheet" software (4) under 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Kansai Institute of Information Systems
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

WATER SUPPLY ENGINEERING II

May 7, '96 - July 26, '96, 12 participants

上水道施設II

J-96-00100

- PURPOSE** The purpose of this course is to provide participants with an opportunity to broaden theoretical and practical knowledge of water supply systems with surface water resource and sanitary engineering systems including its planning, designing, operation and maintenance through lectures, laboratory practice and observations.
- MAIN FEATURES OF CURRICULUM** This course is designed to cover the following themes: (1) water supply planning (2) waterworks management (3) water purification and quality (4) pipeline (5) mechanical and electrical instrumentation
- QUALIFICATION OF APPLICANT** (1) presently engaged in the field of water supply with surface water resource in the relevant authority and have more than three years of occupational experience in the field (2) university graduate or equivalent (3) not less than 26 and not more than 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japan Water Works Association (JWWA)

SEWAGE WORKS ENGINEERING II

Aug. 20, '96 - Nov. 20, '96, 13 participants

下水道技術II

J-96-00167

- PURPOSE** The purpose of the course is to provide participants with a basic knowledge of sewage collection, urban drainage systems, sewage treatment and disposal, and sludge handling, as well as to furnish them so that the participants would be able to play their greater role for further progress and advancement of sewage works in their respective countries.
- MAIN FEATURES OF CURRICULUM** This course covers the following themes: (1) basic theory of sewerage and sewage purification (2) process and methods for planning and designing sewers, pumping stations, and sewage and sludge treatment facilities (3) rough master plan for a sewage systems (4) pretreatment of industrial wastewater (5) significance and methods of water quality analysis (6) advanced sewage and sludge treatment technology
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent and has more than three years of practical experience (2) senior technical officer in charge of sewage works in central or provincial government, or in local bodies (3) under 40 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Sewerage Planning Division, Sewerage and Sewage Purification Department, City Bureau, Ministry of Construction (3) Japan Sewage Works Agency
- REMARKS** Country Reports will be highly utilized both for the selection of participants and for the country report presentation.

SOLID WASTE MANAGEMENT AND NIGHT SOIL TREATMENT II

May 21, '96 - July 26, '96, 10 participants

廃棄物処理II

J-96-00111

- PURPOSE** The main purpose of the course is to provide participants with knowledge and techniques required for solid waste management and night soil treatment (excluding sewerage system), particularly those for domestic and industrial solid waste management, through lectures, discussions, laboratory practice and field studies. The lectures are intended to provide the participants not only with knowledge and techniques but also principles and approaches to problem solving. The course is also intended to introduce recent aspects of solid waste management in Japan and its international technical cooperation activities in this field.
- MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in this course, mainly by means of lectures: (1) problem identification and national/master plan elaboration (2) solid waste management (a) collection and transportation (b) treatment and disposal (incineration, sanitary landfills) (3) industrial waste management (especially hazardous waste) (4) night soil treatment (5) institutional development for solid waste management service (6) solid waste management/night soil treatment in developing countries
- QUALIFICATION OF APPLICANT** (1) technical official presently in charge of solid waste management (domestic and industrial solid waste management and night soil treatment excluding sewerage system) in central or provincial governments or in local bodies, with three or more years of experience in this field (2) under 50 years of age (3) university graduate or equivalent
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Environmental Health Bureau, Ministry of Health and Welfare (3) Japan Environmental Sanitation Centre

WASTE MANAGEMENT PRACTICE

Jan. 27, '97 - May 17, '97, 9 participants

廃棄物処理実習

J-96-00487

- PURPOSE** The purpose of this course is to upgrade the administrative and managerial skills of personnel who are currently engaged in solid waste management, in order to deal with environmental problems due to the rapid progress of urbanization and industrialization in participating countries.
- MAIN FEATURES OF CURRICULUM** The training programme consists of lectures, practice and study tours on solid waste management. The emphasis is put on providing participants with practical and applicable skills and knowledge as well as Japanese experience to help them to formulate their Action Plans, which are most appropriate for the current status of their respective countries. The subjects covered in the course are: (1) basic theory of local administration (2) household refuse treatment (3) strategies for public awareness building on solid waste management (4) night soil treatment (5) administrative framework of industrial solid waste management (6) industrial waste processing (7) solid waste management in local governmental enterprise (8) hazardous wastes management (9) landfilling of solid wastes (10) ocean dumping of wastes (11) medical waste management (12) study tours
- QUALIFICATION OF APPLICANT** (1) technical administrator with three years or more experience in solid waste management and/or equivalent technical knowledge (2) university graduate or equivalent (3) not more than 40 years of age
- TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association
- REMARKS** (1) A compulsory 25 hour Japanese language course will be conducted prior to the technical training.

ADMINISTRATION SYSTEM FOR MOTOR VEHICLE

Jan. 21, '97 - Mar. 2, '97, 6 participants

自動車行政制度

J-96-00323

- PURPOSE** The purpose of the course is to provide participants with both comprehensive and practical knowledge of administrative systems for motor vehicle, and thus to contribute to creating the most suitable system for motor vehicle in their respective countries.
- MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures and field visits. The following are the major subjects to be covered in the course. (1) administrative systems and related laws and regulations in Japan (a) safety and pollution control regulations (b) maintenance, repair and inspection systems (c) registration system (d) road transport business regulations (e) insurance system (f) driver's licence system, etc. (2) motor vehicle safety and pollution control engineering (3) motor vehicle standards and production activities (4) business and services for traffic safety
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) be engaged in the field of administration, preferably administrator for policy and system making on motor vehicle inspection, registration and control in governmental or public organizations. Automotive engineers for design, production and/or maintenance are strictly not requested to apply (3) under 50 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Road Transport Bureau, Ministry of Transport (3) Automobile Inspection & Registration Association (AIRA)

MODERNIZATION OF CARGO TRANSPORT (PHYSICAL DISTRIBUTION)

Apr. 15, '96 - June 17, '96, 8 participants

物流近代化

J-96-00388

- PURPOSE** This course aims at providing officials who are currently engaged in the field of physical distribution (cargo transport) at governmental or public organizations with opportunities to study plans, techniques, and information about modernization of physical distribution. The course shall be focusing on land transport, especially truck transport. The curriculum comprehends packaging, storing, handling, transport and information management.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures and observation tours. The main themes are: (1) administration of physical distribution (2) planning and coordination for physical distribution (3) modernization for physical distribution (4) strategy for physical distribution
- QUALIFICATION OF APPLICANT** (1) currently engaged in the field of physical distribution (cargo transport, especially land transport) at governmental or public organizations, with three years or more of experience in this field (2) university graduate or equivalent (3) not engaged in the field of road construction and management, traffic survey and control and passenger transport
- TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) Transport Policy Bureau, Ministry of Transport (3) Chubu District Transport Bureau, Ministry of Transport (4) Industrial Research Institute, Aichi Prefectural Government (5) private enterprises
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

SEMINAR ON HIGHWAY CONSTRUCTION II

Sep. 17, '96 - Nov. 8, '96, 15 participants

ハイウェイセミナーII

J-96-00103

- PURPOSE** The seminar is designed to improve the knowledge of personnel who are currently engaged in highway construction and maintenance through the introduction of road construction technology developed in Japan.
- MAIN FEATURES OF CURRICULUM** The most important part of the seminar is Country Report presentation and discussion for comparative study. Another major part is introduction of Japanese systems, situations and cases as follows. (1) present situation of roads and road transportation, which includes traffic safety, disaster prevention, new transportation systems, etc. (2) outline of special large-scale projects in which the most advanced techniques in this field are concentrated (3) road environmental problems and measures for protecting the living environment along highways (4) technical standards for design of highways, bridges, and pavements
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) engineer with more than two years of experience in the field of highway construction and maintenance (3) under 35 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Road Bureau, Ministry of Construction

PROJECT PLANNING FOR URBAN TRANSPORT INFRASTRUCTURE

Sep. 26, '96 - Nov. 23, '96, 13 participants

都市交通プロジェクト計画

J-96-00480

- PURPOSE** The purpose of this course is to provide participants with general knowledge of techniques and methodology for planning, design, implementation, and operation/management of urban transport infrastructure composed of urban expressways, arterial roads, subways, bus services, parking and signal systems.
- MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered in lectures and observation trips: (1) planning techniques of urban transport projects, (2) methodology to conduct a feasibility study for urban transport projects, (3) principle and methods of design for urban transport projects, (4) techniques for implementing urban transport projects, (5) methods and techniques for operation/management of urban transport infrastructure.
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience of more than three years (2) under 40 years of age (3) presently engaged in planning, design or management for urban transport infrastructure
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Street Division, City Bureau, Ministry of Construction
- REMARKS** Country Reports will be highly utilized both for the selection of participants and for the country report presentation.

RAILWAY MANAGEMENT PLANNING

May 28, '96 - Jun. 30, '96, 9 participants

鉄道経営計画

J-96-00462

- PURPOSE** The purpose of this course is to introduce Japanese railway management to the participants so as to contribute to railway management in participating countries by establishing sound methods of railway operations and railway project management.
- MAIN FEATURES OF CURRICULUM** This course consists of observation of various types of railway companies in Japan and lectures on the following topics: (1) present situation of railway enterprises in Japan (2) restructuring of the former Japanese National Railway (3) different operation forms (private, public and joint-ventures between private and public sectors) (4) different types of railway transportation (monorail, new transit system, etc.) (5) methods of multiple management (6) systematic and efficient management (maintenance program, financial management, personnel management, etc.)
- QUALIFICATION OF APPLICANT** (1) at the chief or director level, engaged in planning or administrative division in the field of railway management (2) have more than five years of practical experience after graduation from university (3) university graduate or equivalent (4) under 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Railway Bureau, Ministry of Transport (3) Japan Railway (JR) Group

SEAFARER'S MANAGEMENT SYSTEM

Nov. 5, '96 - Dec. 13, '96, 10 participants

船員管理システム

J-96-00499

- PURPOSE** The purpose of this course is to provide knowledge and techniques in seafarer training and labour control systems based on seafarer administration, using the seafarer management system in Japan as an example, and to contribute to creating suitable seafarer management systems for participating countries.
- MAIN FEATURES OF CURRICULUM** This course is comprised of the following subjects; (1) labour management of seafarers (a) legal management of seafarers (b) actual labour management on ongoing vessels (c) the present status of seafarer union's activities (2) administration of and certification system for seafarers (a) administration system (b) certification system (c) national examination system for ship's officers (3) education system for seafarers (4) circumstances of Japanese shipping: mixed-manning system
- QUALIFICATION OF APPLICANT** (1) person with occupational experience of more than three years either as a) human development manager or personnel in charge of organizing training curriculum for seafarers in shipping corporations or training institutions for seafarers, or b) governmental or other public official in managerial or leading position in administrative organizations for shipping corporation or training institutions for seafarers (2) university graduate or equivalent (3) between 25 and 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Seafarers Dept., Maritime Technology and Safety Bureau, Ministry of Transport (3) Maritime International Cooperation Center of Japan (MICC)

MARINE TECHNIQUE (NAVIGATOR)

June 24, '96 - Dec. 6, '96, 5 participants

航海技術(航海士)

J-96-00379

- PURPOSE** The aim of the course is to hand over to the participants marine technique and experience which Japan has long accumulated, and by doing so to make them conscious of the status quo of higher marine technology and management. Furthermore, the participants, through their own training, are to acquire the knowledge and techniques concerning seamen's training methods, and upon return to their respective countries, are expected to spread their fruits so gained among their successors.
- MAIN FEATURES OF CURRICULUM** This course consists of common subjects for all participants, seminar at laboratory (optional subjects), on-board practice and observation tours. Common Subjects (10 weeks) (1) terrestrial and celestial navigation (2) nautical instruments (3) ship maintenance (4) ship maneuvering and marine accident (5) ship cargo handling (6) safety management (7) watch keeping (8) naval architecture (9) marine meteorology (10) navigational regulations (11) maritime law (12) ship engineering (13) computer mathematics (14) computer and information science (15) computer practice (16) fundamentals of physical Science (17) fundamentals of chemical science (18) fundamentals of maritime management (19) bridge simulator training (20) radar simulator training (21) practice on board. Seminar in laboratory (optional subjects) (4 weeks) (1) simulator training (2) nautical instruments (3) weather and radar navigation (4) navigational regulations and maritime law (5) loading calculation
- QUALIFICATION OF APPLICANT** (1) in possession of the certificate of Third of higher Grade Maritime Officer (Officer) with more than one year of seetime, or those who have the equivalent knowledge and experience engaged in official affairs or education for maritime with more than one year (2) male, between 25 and 35 years of age (3) presumed to contribute to fostering mercantile officials or instructors who will play a leading role in this field in their respective countries
- TRAINING INSTITUTIONS** (1) Hyogo International Center (HIC), JICA (2) Marine Technical College
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for three weeks (75 hours).

MARINE TECHNIQUE (ENGINEER)

June 24, '96 - Dec. 6, '96, 5 participants

航海技術(機関士)

J-96-00380

- PURPOSE** The aim of the course is to hand over to the participants the marine technique and experience which Japan has long accumulated, and by so doing to make them conscious of the status quo of a higher marine technology and management. Furthermore, the participants, through their own training, are to acquire the knowledge and techniques concerning the seamen's training methods, and upon return to their respective countries, are expected to spread their fruits so gained among their successors.
- MAIN FEATURES OF CURRICULUM** This course consists of common subjects for all participants, seminar at laboratory (optional subjects), on board practice and observation tours. Common subjects (12 weeks) (1) boiler (2) steam turbine engine (3) diesel engine and gas turbine (4) propeller and shafting (5) auxiliary machinery (6) electrical engineering (7) automatic control (8) instrumentation (9) fuel oil and lubricant (10) thermodynamics, hydrodynamics, mechanics and materials (11) computer (12) marine propulsion system based on energy flow (13) engine room simulator training (14) maritime laws and international conventions (15) ship's survey inspection (16) safety management (17) practice on board. Seminar in laboratory (optional subjects) (2 weeks) (1) steam plant (2) internal combustion engine (3) electrical engineering and electronics (4) auxiliary machineries (5) automatic control (6) instrumentation (7) information engineering (8) engine room simulator (9) propulsion
- QUALIFICATION OF APPLICANT** (1) in possession of the certificate of Third of higher Grade Maritime Officer (Engineer) with more than one year of seetime, or those who have the equivalent knowledge and experience engaged in official affairs or education for maritime with more than one year (2) male, between 25 and 35 years of age (3) presumed to contribute to fostering mercantile officials or instructors who will play a leading role in this field in their respective countries
- TRAINING INSTITUTIONS** (1) Hyogo International Center (HIC), JICA (2) Marine Technical College
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for three weeks (75 hours).

AIDS TO MARINE NAVIGATION II

Aug. 22, '96 - Oct. 26, '96, 7 participants

航路標識II

J-96-00148

- 1. PURPOSE** The purpose of the training course is to provide participants with the comprehensive and latest theory, knowledge and techniques of systems of aids to marine navigation in Japan, thus contributing to the improvement of the managerial and technological level of aids to navigation in each participating country, and to promote cooperative relations among the participating countries and Japan in carrying out their duties of providing aids to marine navigation.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japanese system and basic knowledge and techniques. The following themes will be covered in the course. (1) administration of aids to marine navigation and related activities in Japan (2) systems of aids to marine navigation (3) aids to marine navigation: theories and system engineering (4) observations (maritime transportation in Tokyo Bay, Vessel Traffic Service Center etc.) (5) practice (visual aids equipment, power sources, aids to navigation office)
- 3. QUALIFICATION OF APPLICANT** (1) technical college graduates of the equipment with sufficient knowledge in the field of engineering (civil, mechanical, electrical and/or electronics engineering) (2) engaged in the field of system planning, operation and/or maintenance of aids to navigation (3) under 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Aids to Navigation Department, Maritime Safety Agency (3) Japan Association for Aids to Navigation (JAAN)

LINER SHIPPING BUSINESS

May 7, '96 - June 21, '96, 8 participants

定期船実務

J-96-00438

- 1. PURPOSE** The purpose of the course is to provide participants with an opportunity to acquire basic knowledge and up-to-date information on liner shipping operations in Japan as well as those in global situations. For this purpose, the course provides lectures on shipping policy of Japan and liner shipping operation, centering on container operation. In addition, observation and study tours will contribute to better understanding of lectures as a supplement guide.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of the Japanese system and basic information. The following major subjects will be covered in the course. (1) government administration for shipping (a) administration for international shipping of Japan (b) present situation and future planning of container terminals in Japan (c) administration for seafarers (2) maritime law (a) ocean carrier's liability (b) charter party and maritime arbitration (c) cargo claim (3) liner shipping business (a) liner shipping business and shipping conference (b) containerization in the shipping field (c) purchasing and leasing at container (d) management and operation at containers (e) container terminal operation (f) international combined transportation (g) activities of Japanese shipper's council (4) others around liner shipping business (a) liner shipping service of the world (b) profitability calculation in building new vessels (c) technological innovation at vessels (d) marine insurance
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have practical experience of more than three years in shipping business, and possess basic knowledge of the liner shipping business (3) presently engaged in shipping related services (4) under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Shipping Division, Maritime Transport Bureau, Ministry of Transport. (3) Maritime International Cooperation Center of Japan (MICC)

MARITIME SEARCH AND RESCUE OPERATION AND MARITIME DISASTER PREVENTION

Aug. 19, '96 - Dec. 4, '96, 7 participants

救難防災

J-96-00343

- 1. PURPOSE** The purpose of this course is to provide the participants with an administrative concept and actual ways of managing maritime search and rescue and maritime disaster prevention through lectures, practices and observations. The training will contribute to further promotion of the friendship and cooperation between the participating countries and Japan.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of comprehensive knowledge on the following subjects through lecture, practice and field trip. The main themes are: (1) lectures (a) organization and function of JMSA (Japan Maritime Safety Agency) (b) international maritime search and rescue activities under the International Convention on Maritime Search and Rescue, 1979 (c) maritime search and rescue systems in Japan (d) maritime search and rescue operations (e) case studies of maritime search and rescue operations (f) method on rescue of capsized and grounded ships (g) Global Maritime Distress and Safety System (GMDSS) (h) information collection system of JMSA (i) prevention of marine pollution system (j) JMSA's activities on marine disaster prevention (2) Practice (a) experimental sail on a JMSA's fire fighting vessel or craft (b) work on marine disaster prevention (c) experimental sail on a JMSA's patrol vessel (d) experimental fly in a JMSA's aircraft (observation of Special Rescue Station) (e) rescue training including special rescue (3) observation and study tour (a) training of Special Rescue Team and patrol vessels with improved rescue capability of JMSA
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience of more than five years in the field of marine disaster prevention and, search and rescue operation (2) presently engaged in the above-mentioned field (3) under 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Hyogo International Center (HIC), JICA (2) Maritime Safety Agency (3) The 5th Regional Maritime Safety Headquarters (4) Maritime Safety Academy (5) Disaster Prevention Training Centre
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for about several days.

SEMINAR ON PORT ADMINISTRATION AND MANAGEMENT

Sep 24, '96 - Nov. 22, '96, 17 participants

港湾管理運営セミナー

J-96-00440

- 1. PURPOSE** The seminar is designed to contribute to cultivating the human resources development of port administrators and managers who are expected to play an important role in port development in participating countries so as to improve port administration and management systems in respective countries.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on case study at one of the six biggest ports in Japan, report presentation and discussion. The main themes are: (1) present situation of ports and harbours in Japan (a) port development policy (b) system and organization of port administration and management (c) labour problems (2) techniques on port management and operation services (3) ports and harbours in participating countries
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) presently engaged in the port administrative works and/or management with more than eight years of occupational experience in the field of ports and harbours (3) between 30 and 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Ports and Harbours Bureau, Ministry of Transport

PORT AND HARBOUR ENGINEERING II

May 7, '96 - Sep. 15, '96, 15 participants

港湾工学II

J-96-00035

1. **PURPOSE** The course is designed to contribute to cultivating the human resources development of port engineers who are expected to play an important role in port development in participating countries so as to improve the technology in solving various technical problems in port development.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures, exercises, observations, intensive field study at the Onahama Port and discussions. It covers: (1) basic theories of port and harbour engineering (2) advanced technology for port development (3) port development in Japan
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) presently engaged in civil engineering with more than three years of occupational experience (3) under 35 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Ports and Harbours Bureau, Ministry of Transport (3) Ports and Harbours Research Institute

DEVELOPMENT OF CONTAINER TERMINAL

Jan. 13, '97 - Mar. 9, '97, 8 participants

コンテナ埠頭整備計画

J-96-00331

1. **PURPOSE** The purpose of this training course is to help participants understand the background to containerization and methods of planning, construction, maintenance and management of container terminals as well as the containerization policy currently applied in Japan, and thus to help each of the participants figure out the future prospects for containerization in their respective countries.
2. **MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures, intensive study at Kobe Port (one of the leading ports in Japan) and group work. Participants will be divided into several groups to study a subject which is chosen by them (such as engineering, computers, etc.) and to make presentations at the end of the course. The following are the major subjects to be covered in the course. (1) containerization and development of container terminals (2) method of planning container terminals (3) management and maintenance of container terminals
3. **QUALIFICATION OF APPLICANT** (1) presently engaged in or will be engaged in container terminal planning and/or container terminal management (2) university graduate or equivalent with more than five years of occupational experience in the field of ports and harbours (3) not less than 30 and not more than 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Ports and Harbours Bureau, Ministry of Transport

SEMINAR ON AVIATION SECURITY

Jan. 21, '97 - Feb. 23, '97, 14 participants

航空保安セミナー

J-96-00318

1. **PURPOSE** The purpose of this seminar is to provide participants with fundamental knowledge of aviation security practiced in Japan, which includes ICAO specifications. Participants will also have the opportunity to exchange views in the field of aviation security among other participants and Japanese lecturers, thus contributing to investigating applicable methods to improve aviation security in participating countries.
2. **MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of Japanese systems as an example. The following major subjects will be covered in the seminar. (1) civil aviation in Japan (2) airport management and security guard (3) countermeasures for aviation security (4) security control systems (5) presentation and discussion by participants (6) observation of airports and aviation facilities to: (a) deepen the fundamental knowledge of international measures for aviation security, (b) acquire the fundamental knowledge of countermeasures for aviation security and of security control system practiced in Japan as a reference, (c) deepen the fundamental technical knowledge of security equipment, and (d) identify the problems of aviation security in each participating countries, and thus contributing to considering the improvement for such problems.
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent academical background (2) currently employed by their governments or other public authorities for civil aviation (It is desirable to be in the leading positions of administrative and/or policy-planning sections for aviation security) (3) have not less than five years of occupational experience in the field of aviation security (4) under 45 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Civil Aviation Bureau, Ministry of Transport (3) Airport Security Business Center (ASBC)

SEMINAR ON AIR TRAFFIC CONTROL

May 14, '96 - June 28, '96, 10 participants

航空管制セミナー

J-96-00400

1. **PURPOSE** The purpose of this seminar is to provide participants with an understanding of overall civil aviation activities in Japan, which include current organization, Air Traffic Control (ATC), Air Traffic Services (ATS)-related matters, planning/policy etc., thus giving them broader views to work out their own future plans and policies.
2. **MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of Japanese systems. The following is the subjects to be covered in the seminar, and it does not include any on-the-job training on ATC or training using simulator for ratings. (1) civil aviation and transportation (2) air traffic services at present and in future (3) air traffic control services in Japan
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) currently employed by their government or by public authorities (3) engaged in managerial activities of Air Traffic Control and have occupational experience of not less than three years in the field of air traffic control, or be engaged in administrative work in the field of Air Traffic Services together with previous occupational experience in air traffic services (4) under 45 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Civil Aviation Bureau, Ministry of Transport (3) Air Traffic Control Association, Japan
5. **REMARKS** This seminar is not formulated to provide participants with ATC on-the-job training/training using simulator for ratings.

URBAN TRANSPORT SEMINAR

May 30, '96 - July 21, '96, 10 participants

都市交通セミナー

J-96-00222

- 1. PURPOSE** The purpose of the seminar is to give knowledge of urban transport, especially mass transit system and opportunities to exchange views for the development of urban transport planning towards those who will follow in urban transport planning in future.
- 2. MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of Japanese systems and experience. The main themes to be covered are: (1) Japanese policy and planning on urban transport and subsidies to transport enterprises (2) lectures on several transport modes (3) framework of development study on better urban transport system in participating countries (discussion and presentation)
- 3. QUALIFICATION OF APPLICANT** (1) more than three years experience in the field of transport who are engaged in urban transport planning now (2) under 35 years of age (3) university graduate or equivalent
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Transportation Policy Bureau, Ministry of Transport (3) Japan Transport Cooperation Association (JTCA)

COMPREHENSIVE URBAN TRANSPORTATION PLANNING

Sep 24, '96 - Nov. 27, '96, 10 participants

総合都市交通施設計画

J-96-00245

- 1. PURPOSE** The purpose of the course is to provide participants with the knowledge of principle and the method of urban transportation planning through lectures, discussions and field studies such as planning principles of urban transportation, land use planning, transportation characteristics, urban transportation survey systems, etc.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips: (1) city planning (2) comprehensive urban transportation planning (3) individual transportation facility planning (4) methodology of evaluation necessary for the implementation of the project
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience of more than three years (2) under 35 years of age (3) presently engaged in the fields of survey, planning, management and administration on urban transport
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) City Bureau, Ministry of Construction (3) City Planning Association
- 5. REMARKS** Country Reports will be highly utilized both for the selection of participants and for the Country Report presentation.

SEISMOLOGY AND EARTHQUAKE ENGINEERING II

Sep. 2, '96 - July 27, '97, 20 participants

地震工学II

J-96-00012

- 1. PURPOSE** The purpose of the course is to contribute to upgrading the knowledge and technique of the participants in the field of seismology and earthquake engineering through lectures (including colloquiums, exercises, practical training, observation tours) and individual studies, so as to nurture researchers and engineers capable of playing an important role in these fields.
- 2. MAIN FEATURES OF CURRICULUM** Participants will be divided into two groups: (1) seismology and (2) earthquake engineering by their request on application. This course consists of common subjects for all participants, individual subjects for each of the group, and individual training in the laboratory. The outline of the subjects on the training course are as follows. (1) both groups: general seismology and earthquake engineering, strong ground motion, mathematics, basic programming of computer, etc. (2) seismology group: computer, elasticity, data processing, seismic surface waves, interpretation of seismograms, seismicity and plate tectonics, study trip, individual study, etc. (3) earthquake engineering group: soil mechanics and dynamics, structural analysis and dynamics, earthquake resistant design of building structure, study trip, individual study, etc.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with professional experience of more than three years (2) well versed in basic mathematics such as differentiation and integration (3) under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tsukuba International Centre (TBIC), JICA (2) International Institute of Seismology and Earthquake Engineering (IISEE), Building Research Institute, Ministry of Construction
- 5. REMARKS** Those participants who have passed the examination on more than five subjects and submitted their individual study report will be granted a Diploma of IISEE.

SEMINAR ON SEISMOLOGY AND EARTHQUAKE ENGINEERING

Oct. 7, '96 - Nov. 8, '96, 12 participants

地震工学セミナー

J-96-00246

- 1. PURPOSE** The purpose of this seminar is to renew the knowledge and expertise of engineers and seismologists who have previously participated in "The Group Training Course in Seismology and Earthquake Engineering" in International Institute of Seismology and Earthquake Engineering, or an equivalent course, by introducing up-to-date and advanced knowledge on earthquake disaster prevention technology in Japan and other countries.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on report presentation and discussion by participants. The main themes are; (1) earthquake disaster prevention (2) restoration technology
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with professional experience in the field of earthquake engineering for more than ten years, and preferably be engaged in a job suitable to the aim of this seminar (2) over 35 and under 55 years of age
- 4. TRAINING INSTITUTIONS** (1) Tsukuba International Centre (TBIC), JICA (2) International Institute of Seismology and Earthquake Engineering (IISEE), Building Research Institute, Ministry of Construction
- 5. REMARKS** This course is conducted every other year in principle. This year (in Japanese Fiscal Year 1996) it will be conducted.

METEOROLOGY II

Aug. 15, '96 - Dec. 20, '96, 9 participants

気象学II

J-96-00187

- 1. PURPOSE** The purpose of this course is to provide participants with general and practical fundamentals applicable to various areas of operational meteorological services, through lectures, exercises, study tours and technical visits thus motivating participants to improve the technical standards applicable to meteorological services. This is a revised version of the group training course in "Meteorology", after its completion in response to the continuous needs for this kind of training course.
- 2. MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures with appropriate exercises and study visits. The themes of lecture/exercises are: (1) theoretical basics and technologies for operational meteorological services (2) personal computers in meteorological services (3) meteorological satellite data (4) short, medium and long range forecasting methods including numerical weather prediction (5) selected topics from research activities at Japan Meteorological Agency
- 3. QUALIFICATION OF APPLICANT** (1) presently engaged in meteorological services for their governments or government-related public organizations (2) university graduate or equivalent (WMO Classes I and II) with more than three years of occupational experience in the field of operational/practical meteorological services (3) under 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japan Meteorological Agency (JMA) (3) Meteorological Research Institute of JMA (4) Meteorological Satellite Centre of JMA (5) Meteorological College of JMA

SCIENCE AND TECHNOLOGY FOR DISASTER PREVENTION

Sep. 2, '96 - Dec. 1, '96, 9 participants

防災科学技術

J-96-00211

- 1. PURPOSE** The course is designed to introduce beneficial knowledge of disaster prevention through case studies of Japanese experience and to upgrade administrative skills of personnel who are currently engaged in disaster prevention activities. The course focuses on comparative study of disaster prevention technology exercised in different countries, and thereby contributes to the improvement of disaster prevention system.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of comprehensive knowledge and technology on disaster prevention including Japanese experience through lectures, observation trips, report presentations, discussions and advanced study. The main themes are: (1) how to prevent disasters caused by hydrologic, meteorological and oceanographical events (2) earthquake prediction and hazard mitigation technology (3) how to predict landslides and volcanic eruptions and prevent their disasters
- 3. QUALIFICATION OF APPLICANT** (1) scientist or engineer in the field of science and technology for natural disaster prevention (2) have more than seven years experience in the field of research or technical application for natural disaster prevention (3) university graduates from the field of science, engineering and other relevant fields or the equivalent with a fundamental knowledge of science and technology (4) under 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tsukuba International Centre (TBIC), JICA (2) National Research Institute for Earth Science and Disaster Prevention (NIED), Science and Technology Agency

VOLCANOLOGY AND VOLCANIC SABO ENGINEERING

Mar. 25, '97 - Sep. 21, '97, 8 participants

火山学・火山砂防工学

J-96-00401

- 1. PURPOSE** The purpose of the course is to introduce participants to basic and modern concepts of volcanology and mitigation of volcanic disasters through lectures, exercises and field studies. For this purpose, the first half of the course is allotted to the common course and the second half is divided into two topics: volcanology and volcanic sabo engineering (volcanic disaster prevention engineering).
- 2. MAIN FEATURES OF CURRICULUM** This course consists of three parts; (1) common subjects for all participants (2) training for sub-groups (3) individual training at university/research institute/technical center. For the second part, participants will be divided into the following two groups. (1) volcanology (a) up-to-date physical and geological concept of volcanism (b) theory of seismology, geodesy, geomagnetism, geotherm and geochemistry with the aid of exercises (c) methods of volcano monitoring, data analysis and interpretation emphasizing eruption forecasting (2) volcanic sabo engineering (a) basic theories necessary for study and planning of erosion and sediment control engineering (b) mechanism and structure of debris/mud flows (c) engineering technology and administrative countermeasures against volcanic disaster
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) not more than 35 years of age (3) presently engaged in the volcanic observation and/or disaster prevention (sabo works) and be scheduled to engage in the same field after completion of the course
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Department of Erosion and Sediment Control, Ministry of Construction (3) Japan SABO Association
- 5. REMARKS** (1) Country Reports will be highly utilized both for the selection of participants and for the country report presentation. (2) All the participants of this course are requested to bring Volcanological or Volcanic Sabo Engineering data necessary for the theme of studies during their individual programmes.

BRIDGE ENGINEERING II

Aug. 8, '96 - Oct. 24, '96, 15 participants

橋梁工学II

J-96-00071

- 1. PURPOSE** The purpose of the course is to provide opportunities to learn the general techniques of bridge engineering, used in Japan (including planning, design and construction of bridges) so that the participants will be able to improve the technology in bridge engineering and to contribute to the development of their countries.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips. (1) roads and bridges in Japan (2) design and construction of substructures (3) design and construction of concrete bridges (4) fundamental bridge design theory (5) design and construction of steel bridges (6) maintenance and repair of bridges
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience of more than three years (2) presently engaged in bridge and highway construction (3) not more than 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Road Bureau, Ministry of Construction (3) Japan Association of Steel Bridge Construction
- 5. REMARKS** Country Reports will be highly utilized both for the selection of participants and for the Country Report presentation.

**CONSTRUCTION ENGINEERING II
(CIVIL WORKS)**

Aug. 5, '96 - Nov. 14, '96, 10 participants

建設施工II

J-96-00209

- PURPOSE** The aim of the course is to help senior administrative engineers of governmental organizations to gain broader views on construction engineering by introducing the latest techniques and information related to construction engineering, thus to contribute to the development of human resources in this field of participating countries.
- MAIN FEATURES OF CURRICULUM** This course consists of lectures and observations. The main themes are: (1) general information on public works in Japan and overseas construction (2) fundamental studies (a) geotechnical engineering, concrete, asphalt, steel and new materials, introduction of construction machinery, etc. (3) execution planning and management (a) work planning, process planning, introduction to construction management, machinery control, safety control, counter measures for environmental protection, cost estimation, geotechnical analysis, etc. (4) construction techniques (a) earthwork, concrete work, shield work, paving work, improvement work, foundation work, tunnel construction, bridge construction (steel and concrete), road maintenance work, dam construction, Sabo work, etc.
- QUALIFICATION OF APPLICANT** (1) university / college graduate in civil engineering or equivalent (2) under 40 years of age (3) more than five years experience in planning, design, execution and project management of civil works
- TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Construction Equipment Division, Ministry of Construction (MOC) (3) Construction Equipment Division, Kinki Regional Construction Bureau, MOC (4) Japan Construction Mechanization Association
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

**SOIL MECHANICS AND FOUNDATION
ENGINEERING**

Oct. 10, '96 - Dec. 6, '96, 13 participants

土質及び基礎工学

J-96-00232

- PURPOSE** The purpose of this course is to introduce participants to new methods and knowledge concerning fundamental theory, applied technology, various structure designs, and evaluation methods in the field of soil mechanics and foundation engineering, which are essential for planning, implementation and management of public works and construction projects. **NOTE:** This course is designed for researchers or senior officials engaged in soil mechanics and foundation engineering. It is not recommended for administrative staff who do not have a fundamental knowledge of soil mechanics and foundation engineering.
- MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips: (1) geotechnical engineering in general (2) earth structures (3) laboratory soil testing (4) soil exploration (5) soil improvement (6) foundation of structures (7) evaluation of design
- QUALIFICATION OF APPLICANT** (1) researcher or senior official in charge of geotechnical construction, administration or geotechnical construction projects, and have more than eight years of practical experience in central or local government, or government related organization (2) under 45 years of age (3) university graduate or equivalent, and have knowledge of soil mechanics and foundation engineering
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Affairs Division, Economic Affairs Bureau, Ministry of Construction (3) The Japanese Geotechnical Society
- REMARKS** Country Reports will be highly utilized both for the selection of participants and for the Country Report presentation.

CONSTRUCTION PROJECT MANAGER

Sep. 2, '96 - Nov. 14, '96, 10 participants

建設施工管理者

J-96-00385

- PURPOSE** The purpose of this course is to help senior administrative engineers of public corporations, and private enterprises to master comprehensive techniques, practical knowledge and application techniques in project planning, construction management, and quality control with a view to upgrading the ability of leading construction managers in developing countries, thus contributing to the qualitative improvement of construction technology and civil works in their respective countries.
- MAIN FEATURES OF CURRICULUM** The course will be conducted in the form of lectures, observations of construction sites, case studies, group work, discussions, and practical training. Emphasis will be put on case studies. The main themes are: (1) introduction of management and organization of construction projects (2) construction planning (3) construction management and methods (4) construction project management (group study)
- QUALIFICATION OF APPLICANT** (1) university graduate or those who have undergone higher education in the field of civil engineering or have equivalent educational qualifications (2) at least five years of experience as construction managers (3) under 40 years of age
- TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Engineering Affairs Management Section Minister's Secretariat, Ministry of Construction (MOC) (3) International Affairs Division, Economic Affairs Bureau, MOC (4) Planning Department, Kinki Regional Construction Bureau, MOC (5) Japan Construction Training Center Foundation (JCTC)
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

REGIONAL DEVELOPMENT POLICY SEMINAR

Oct. 1, '96 - Nov. 14, '96, 11 participants

国土開発セミナー

J-96-00258

- PURPOSE** The purpose of the course is to provide the participants with the latest theoretical and practical knowledge of regional development policy through lectures, discussions and observation trips, thereby contributing to regional development in the participating countries.
- MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of Japanese experience and discussions based on report presentation by participants. The seminar deals with planning, policy formulation and implementation of regional development. The major subjects are: (1) outline of regional development policy (2) specific study for regional development policy (3) case studies (4) discussions based on country reports and study reports
- QUALIFICATION OF APPLICANT** (1) engaged in the planning or implementation of national or regional development projects and policies (2) university graduate or equivalent (3) under 40 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Land Agency

SEMINAR ON ADMINISTRATION FOR DISASTER PREVENTION

Feb. 11, '97 - Mar. 16, '97, 15 participants

防災行政管理者セミナー

J-96-00402

- 1. PURPOSE** The purpose of the seminar is to: (1) provide the latest administrative knowledge of disaster prevention as a total system of prediction, evacuation, recovery and disaster reduction. (2) show the variety of the activities and organizations involved in disaster prevention administration, give a brief outline of the individual activities and demonstrate how these are organized in the Japanese disaster prevention administrative system. (3) exchange ideas and experiences concerning natural disaster prevention, and to discuss international cooperation for natural disaster reduction.
- 2. MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of basic theory and exchange of ideas and experiences. The main themes are; (1) policy formation, enforcement and implementation of disaster countermeasures in developing countries (2) international cooperation for natural disaster prevention and reduction
- 3. QUALIFICATION OF APPLICANT** (1) presently engaged in government agencies responsible for disaster prevention (2) not more than 45 years of age (3) university graduate or equivalent
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Disaster Prevention Bureau, National Land Agency

RIVER AND DAM ENGINEERING II

Aug. 19, '96 - Dec. 1, '96, 11 participants

河川及びダム工学II

J-96-00169

- 1. PURPOSE** The course is designated to introduce recent technology and knowledge in the field of river and dam engineering to participants engaged in flood control or water resources development projects.
- 2. MAIN FEATURES OF CURRICULUM** (1) Participants will be divided into two groups-the river group and the dam group. The course consists of three parts-two months of common subjects for both groups, two weeks of specialized subjects designed for each group, and one week of individual research work in the laboratory. (2) specialized subjects for the river group are as follows. (a) river dynamics (b) comprehensive flood loss prevention (c) channel planning/design water level (d) embankment, revetment, groynes (e) sediment hydraulics/exercise (f) sabo planning (g) land slide prevention planning (h) design of sabo facilities/exercise (i) river management (j) tributary treatment (k) naturally diverse construction method (3) specialized subjects for the dam group are as follows: (a) outline of dam planning (b) geological investigation for dam construction (c) foundation treatment (d) design and construction of dam/exercise (e) design of spillway and gate/exercise (f) earthquake resistant design of dams (g) safety management of dams (h) operation and management of reservoirs (i) multipurpose dam law (j) case studies of dam designing
- 3. QUALIFICATION OF APPLICANT** (1) presently engaged in flood control works or water resources development projects (2) university graduate or equivalent with basic knowledge in civil engineering (3) occupational experience of more than five years in the field of execution of flood control works or water resources developments projects (4) under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tsukuba International Centre (TBIC), JICA (2) Ministry of Construction
- 5. REMARKS** (1) A compulsory intensive Japanese language course will be conducted prior to the technical training for one week (25 hours).

CITY PLANNING II

Aug. 15, '96 - Oct. 17, '96, 11 participants

都市計画II

J-96-00027

- 1. PURPOSE** The purpose of this course is to introduce city planners who are directly engaged in city planning to fundamental knowledge and technique of city planning experienced in Japan. These include information on the city planning systems, urban development works and the direction of future policy in Japan, which are useful for comparative studies. The participants will also be suggested to find a way how to deal with the problems of their own towns and cities by exchanging their views and experiences on the occasion of presentation of the Country Report prepared by participants.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japanese systems and situations as follows: (1) city planning methods and urban development projects (2) planning and provision of urban transport (3) present housing situation (4) environmental aspects of urban development and urban transport (5) "kukaku-seiri" (Japanese method of urban land readjustment) applicable both to built-up and suburban areas (6) social, economic and institutional aspects of city planning
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience of more than three years (2) presently engaged in city planning (3) under 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) City Bureau, Ministry of Construction

URBAN DEVELOPMENT

May 14, '96 - July 7, '96, 11 participants

都市整備

J-96-00325

- 1. PURPOSE** The purpose of the course is to introduce the participants through lectures and observations to land readjustment methods and projects carried out in Japan with specific objectives and their background; at the same time, provide the participants with opportunities to exchange views on urban development, so as to contribute to the acquisition of practical knowledge for their purposes.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions, practices and observation trips. (1) Japanese systems and methods of kukaku-seiri (Japanese method of urban land readjustment) applicable both to built-up and suburban areas (2) Japanese systems and methods of new town development (3) Japanese systems and methods of urban renewal (4) social background and problems which lead to the above-mentioned urban development activities (5) policies and methods of urban development in each participating country
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience of more than three years (2) under 40 years of age (3) presently engaged in planning and/or implementation of urban development and redevelopment
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Land Readjustment Division, City Bureau, Ministry of Construction
- 5. REMARKS** Country Reports will be highly utilized both for the selection of participants and for the country report presentation.

HOUSING POLICY

Sep. 26, '96 - Nov. 17, '96, 11 participants

住宅政策

J-96-00230

- 1. PURPOSE** The purpose of the course is to provide participants with examples and experiences from Japanese housing policies and administration in order for them to contribute to the betterment of human living conditions in their countries.
- 2. MAIN FEATURES OF CURRICULUM** The course mainly consists of lectures, discussions, and observations, to cover the following themes. (1) outline of housing policies in Japan (2) general knowledge of housing administration, such as knowledge related to financial systems, new town development and urban renewal plans
- 3. QUALIFICATION OF APPLICANT** (1) mid-career official in charge or expected to take charge of housing policy at the central or local government level or at a related governmental organization (2) university graduate or equivalent (3) between 30 and 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Housing Policy Division, Housing Bureau, Ministry of Construction (3) Building Center of Japan (BCJ)

SEMINAR ON IMPROVEMENT OF HOUSING AND LIVING ENVIRONMENTS

Jan. 25, '97 - Feb. 25, '97, 8 participants

住宅・住環境改善セミナー

J-96-00349

- 1. PURPOSE** The purpose of the seminar is to provide knowledge that will enable participants to contribute to the planning and management of housing and living environment projects in their own countries through providing better understanding of the Japanese system for housing and living environment projects as well as actual problem-solving measures that can be utilized.
- 2. MAIN FEATURES OF CURRICULUM** The seminar is very discussion-oriented. Study report making and presentations by each participant is also a major part of the seminar. The themes to be covered are; (1) problems and countermeasures in developing countries (2) ways to manage housing and living environment projects (3) necessary knowledge for policy formulation
- 3. QUALIFICATION OF APPLICANT** (1) experienced official in charge of executing various developmental projects on housing and living environments at the central or local government level, or at a related governmental organization, and person of being expected to play a leading role in the said field (2) between 30 and 45 years of age (3) university graduate or equivalent
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Housing Policy Division, Housing Bureau, Ministry of Construction (3) Building Center of Japan

ARCHITECTURAL ENGINEERING

May 9, '96 - July 3, '96, 13 participants

建築技術

J-96-00270

- 1. PURPOSE** The purposes of the course is to provide participants with the latest information and knowledge concerning Japanese architectures and building technology so that the participants would be able to play a greater role for further progress and advancement of architectures and building technology in their respective countries.
- 2. MAIN FEATURES OF CURRICULUM** The course consists of lectures (regulation and standard, and building technology in Japan) and visits to related organizations. The following themes are covered. (1) Japanese architectures and building technologies including the social and economic background (2) cross-cultural perspective of architectures and building technologies (3) appropriate mode of building technologies in each participating country
- 3. QUALIFICATION OF APPLICANT** (1) official of the government or related governmental organization and expected to have leading position in architectural construction field (2) under 40 years of age (3) university graduate or equivalent with occupational experience of more than five years and with the general knowledge in the broad field of building or architectural engineering such as building administration, architectural designing and structural engineering
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Housing Bureau, Ministry of Construction (3) Building Centre of Japan (BCJ)

SEMINAR ON ADVANCED TECHNOLOGY OF CONSTRUCTION

May 14, '96 - June 28, '96, 10 participants

建設工事先進技術セミナー

J-96-00479

- 1. PURPOSE** The purpose of the seminar is to provide participants with the latest work methods, new materials and inspection methods so that the participants would be able to contribute to the improvement of construction work in their respective countries.
- 2. MAIN FEATURES OF CURRICULUM** The seminar will NOT cover the all the field of construction. It covers the following major subjects: (1) outline of advanced construction technology (2) advanced work methods in civil engineering work (3) application of new material (4) advanced inspection method
- 3. QUALIFICATION OF APPLICANT** (1) university graduate of civil engineering or related courses, or equivalent (2) have more than seven years of actual experience in construction works (3) not more than 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Minister's Secretariat, Ministry of Construction (3) Japan Construction Training Center (JCTC)

SURVEY AND MAPPING II

Aug. 5, '96 - July 13, '97, 9 participants

測量技術II

J-96-00048

- 1. PURPOSE** This course is designed to contribute to upgrading the knowledge and skills of the participants in the field of surveying and mapping so as to train them to be capable of playing important roles in nationwide surveying and mapping projects, of conducting quality control and process control, and of applying advanced technologies in surveying and map making processes.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of comprehensive knowledge and techniques in the whole process of surveying and map making including GPS, VLBI, GIS and remote sensing, etc. through lectures, discussions, workshop, practice and field trips. It mainly covers; (1) survey planning (2) geodetic surveying (3) cadastral survey (4) photogrammetry (5) map compilation (6) geographical survey (7) map reproduction (8) geographical information system
- 3. QUALIFICATION OF APPLICANT** (1) surveyor presently in charge of surveying or mapping with more than three years of experience in this field (2) university graduate or equivalent (3) over 25 and under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tsukuba International Centre (TBIC), JICA (2) Geographical Survey Institute (GSI)
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

PHYSICAL OCEANOGRAPHIC SURVEY

Nov. 14, '96 - Mar. 21, '97, 8 participants

海洋物理調査

J-96-00154

- 1. PURPOSE** The purpose of the course is to provide participants with a basic modern theoretical knowledge of oceanography as well as practical knowledge and techniques through lectures, practices, field training and observation and study tours.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered. (1) lectures/practice (a) offshore physical oceanography (b) calibration of thermometrical instruments (c) chemistry of sea water (d) marine pollution research (e) wind waves (f) tide and tidal current (g) international oceanographic data exchange system (h) electronic computer programming (2) field training on board survey vessels (a) offshore oceanographic observation on "Shoyo" (1,900 tons) (b) tide and tidal current observation on "Kaiyo" (310 tons)
- 3. QUALIFICATION OF APPLICANT** (1) presently employed at a national hydrographic office or other related organization, and currently engaged in physical oceanographic surveys and research, such as offshore and coastal oceanographic observations, tide and tidal current observations, or oceanographic data processing, analysis and management (2) have basic qualifications or some experience in hydrography, oceanography, or a relevant discipline, and be preferably college graduates or the equivalent with some occupational experience in oceanographic survey and research (3) no more than 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Hydrographic Department, Maritime Safety Agency
- 5. REMARKS** This course is conducted alternately with the group training course "Nautical Charting" every other year. This year, "Physical Oceanographic Survey" will be conducted, while "Nautical Charting" will be conducted in Japanese Fiscal Year 1997.

HYDROGRAPHIC SURVEY (INTERNATIONAL ACCREDITED CATEGORY B COURSE)

Apr. 9, '96 - Nov. 10, '96, 10 participants

水路測量 (国際認定B級)

J-96-00493

- 1. PURPOSE** The course is designed to upgrade knowledge of modern theory and technique of hydrographic survey for personnel engaged in the field of nautical charting and port and near shore surveys at the Category B level of the International Standards of Competence for Hydrographic Surveyors.
- 2. MAIN FEATURES OF CURRICULUM** The curriculum of this course is strictly complying with the requirements under the International Standards of Competence of Hydrographic Surveyors, 6th edition, 1991. The following are the major subjects to be covered in the course. (1) lectures: computing, physics, hydrography (control and practice), environmental aspects, legal aspects, nautical science, nautical charting surveys, port and harbour surveys, electronic chart (2) practice data processing of harbour and coastal surveys, computer programming, control surveys, astronomy, cartography (3) field training on board survey vessels: harbour and coastal surveys, automatic hydrographic data acquisition system, navigation, seamanship, submarine geology
- 3. QUALIFICATION OF APPLICANT** (1) technical college graduate or equivalent with at least two years occupational experience in hydrographic services (2) have obtained credits for two years' course of mathematics and physics at least on the level of technical college or equivalent educational institution (3) presently employed at the national hydrographic office or other pertaining organization responsible for carrying out hydrographic surveys of sea areas (4) not more than 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Hydrographic Department, Maritime Safety Agency
- 5. REMARKS** At the completion of this course, participants will take an examination for the certificate of Category B Hydrographic Surveyor accredited by FIG/IHO International Advisory board. The certificate will not be awarded to the participant who has failed to cover necessary subjects due to insufficient attendance at lectures and field training.

NAUTICAL CHARTING

(not conducted in JFY 1996)

海図作製

- 1. PURPOSE** The purpose of the course is to provide participants with: (1) modern theory of nautical charting based on the format established by the International Hydrographic Organization (2) knowledge and techniques in drawing thematic charts to be used for preservation of marine environment and utilization of the ocean. In addition, the participants will be trained to be familiarized with computer mapping technology, since information science and computers technology is advancing day by day.
- 2. MAIN FEATURES OF CURRICULUM** The curriculum of the course comprises of lectures and practices in classroom, field training using a ship, and observation and study tours. The following subjects will be covered in the course. (1) lecture (a) nautical charting (b) geodesy (c) general aspect of navigation (d) introduction to computers (e) electronic navigational chart and computer assisted cartography (2) practice (a) nautical charting (b) electronic navigational chart and computer assisted cartography (3) field training (a) navigation (aboard survey vessel Shoyo 1,900 T/T) (b) investigation of ports and harbours
- 3. QUALIFICATION OF APPLICANT** (1) presently employed at the national hydrographic office or other organizations which are engaged in carrying out hydrographic survey for the safe navigation of ships, nautical charting and oceanographic surveys for utilization of the ocean (2) not more than 35 years of age (3) junior college/special school graduate or equivalent (4) have basic knowledge of computers
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Hydrographic Department, Marine Safety Agency
- 5. REMARKS** The course is conducted alternately with the group training course "Physical Oceanographic Survey" every other year. This year (Japanese Fiscal Year 1996), this course will be conducted.

RADIO FREQUENCY MONITORING II

Aug. 20, '96 - Oct. 5, '96, 10 participants

電波監視II

J-96-00180

- PURPOSE** The purpose of this training course is to: (1) provide fundamental knowledge of radio frequency monitoring. (2) provide fundamental knowledge of radio regulatory schemes in Japan (3) provide knowledge of monitoring equipment utilized in Japan.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of basic theory of radio monitoring and the system and techniques in Japan. The main themes of the course are: (1) management processes for better quality of radio monitoring (2) application of latest techniques
- QUALIFICATION OF APPLICANT** (1) person with practical experience in the field of radio regulatory administration (radio frequency monitoring, frequency management, etc.) (2) under 40 years of age (3) college graduate or equivalent
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Cooperation Division, Ministry of Posts and Telecommunications

POSTAL EXECUTIVES' SEMINAR II

Feb. 20, '97 - Mar. 9, '97, 12 participants

郵便幹部セミナーII

J-96-00098

- PURPOSE** The purpose of this seminar are to provide the participants with the knowledge of current situations of postal services in Japan, and opportunities to examine and exchange views on the problems common among the participating countries through lectures, discussions and observations.
- MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of Japanese situations and exchange of views. The main themes are: (1) present situations and problems of views of postal services in participating countries (2) development and better utilization of postal infrastructures (3) improvement of quality of postal services in rapidly changing socio-economic conditions (4) measures to cope with evolving needs from customers
- QUALIFICATION OF APPLICANT** (1) director general or equivalent high-ranking official in charge of postal administration in governmental organizations
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Postal Bureau, Ministry of Posts and Telecommunications

EXECUTIVES' SEMINAR ON POSTAL BANKING SERVICES

Sep. 1, '96 - Sep. 15, '96, 8 participants

為替貯金国際幹部セミナー

J-96-00403

- PURPOSE** The purposes of the seminar are: (1) to seek solutions to common problems in the participating postal administrations or national savings organizations, after providing know-how on the Japanese postal banking services and Japanese financial environmental through a series of lectures and technical visits. (2) to promote further mutual understanding and closer cooperation among all the participating countries and Japan in the field of postal banking services through discussions and presentations.
- MAIN FEATURES OF CURRICULUM** This seminar covers the following topics. (1) general introduction of Japanese postal banking (a) role, present conditions and issues facing of postal banking services (b) "outline of the postal banking services in Japan" (video show) (c) history, organization and personnel of postal banking service (2) management of Japanese postal banking (a) products (b) sales promotion activities (c) fund management (d) computerization (e) international business (remittance, foreign currency exchange and T/C) (3) introduction of Japanese financial system, financial deregulation, fiscal investment and loan programme (4) discussion of present status and problems facing savings institutions of developing countries
- QUALIFICATION OF APPLICANT** (1) director or high-ranking official of savings organizations (Postal Savings Organization or, national/government Savings Bank) or Postal Money Order and Postal Giro Organization
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Ministry of Posts and Telecommunications

INTERNATIONAL TELECOMMUNICATION SERVICES (ADMINISTRATION AND MANAGEMENT) II

May 14, '96 - July 19, '96, 11 participants

国際通信業務管理II

J-96-00024

- PURPOSE** This course is designed to renew and upgrade participants' knowledge and skill in administration and management of international telecommunication services through the study of both conventional and the latest telecommunication technology and various services.
- MAIN FEATURES OF CURRICULUM** The curriculum mainly features lectures on (1) various management and public relations activities, (2) telecommunication systems and technology, (3) miscellaneous services and operations. Observation trips to relevant facilities are integrated to augment the programme. Participants are required to make a presentation on their future perspectives at the end of the course.
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience of more than five years in the field of international telecommunication services (2) presently engaged in administrative and managerial work of international telegraph or telephone services (3) under 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Kokusai Denshin Denwa Co., Ltd. (KDD) (3) KDD Engineering and Consulting Inc. (KEC)

INTERNATIONAL TELEPHONE COMMUNICATION ENGINEERING

Jan. 13, '97 - Mar. 14, '97, 12 participants

国際電話通信技術

J-96-00212

- PURPOSE** The purpose of the course is to introduce participants to digital switching system technology in construction work, operation and maintenance, operation administration and drawing up specification which is necessary for the construction of international telephone switching network.
- MAIN FEATURES OF CURRICULUM** The emphasis is placed on the planning aspects of international telephone network; namely planning of switching system, numbering plan, signalling system, network planning and management. Lectures on operation and maintenance of international telephone switching system are featured to broaden participants' perspective. Observation trips to relevant facilities are organized to augment the lectures.
- QUALIFICATION OF APPLICANT** (1) university graduate in telecommunications and/or electrical engineering or equivalent (2) have basic knowledge of computer and switching system technology, and currently engaged in or expected to be engaged in the field of establishment and maintenance of international telephone switching network (3) under 40 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Kokusai Denshin Denwa Co., Ltd. (KDD) (3) KDD Engineering and Consulting Inc. (KEC)

INTERNATIONAL DATA COMMUNICATION ENGINEERING

Sep. 3, '96 - Nov. 1, '96, 11 participants

国際データ通信技術

J-96-00267

- PURPOSE** The purpose of this course is to introduce to participants fundamental and up-to-date technology of international data communications such as data transmission, switching systems, communications protocols, terminal equipment, etc., through lectures as well as practice sessions at Kokusai Denshin Denwa Co. Ltd. (KDD).
- MAIN FEATURES OF CURRICULUM** Major portion of the curriculum is allocated for lectures on (1) introduction to data communication, (2) various data communication technology, (3) KDD services and (4) new communication services. Field practice and observation trips to relevant facilities are organized to supplement the lectures. Participants are required to take exams at the beginning and the end of the course.
- QUALIFICATION OF APPLICANT** (1) university graduate specializing in telecommunications and/or electrical engineering or equivalent (2) have basic knowledge of computer hardware, software and currently engaged in or expected to be engaged in the planning or the policy making of international data communications engineering (3) have experience of more than three years in the field of data communications (4) under 40 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Kokusai Denshin Denwa Co., Ltd. (KDD) (3) KDD engineering and Consulting Inc. (KEC)

DATA COMMUNICATION PROCESSING ENGINEERING

Jan. 7, '97 - Feb. 22, '97, 10 participants

データ通信処理技術

J-96-00288

- PURPOSE** The purpose of the course is to provide data communication engineers working for telecommunication administrations or public telecommunications operating agencies in developing countries with a fundamental and practical knowledge of data communications engineering. Participants will obtain a basic mastery of data communication systems, especially with regard to the construction, maintenance and operation of these systems.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of concepts and basic theories on the following subjects; (1) public digital data network (including data terminal equipment) (2) information system (3) local area network (LAN) (4) network architecture (5) network management system
- QUALIFICATION OF APPLICANT** (1) presently engaged in data communication services (2) university graduate or equivalent (3) under 40 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Central Training Institute (CTI), Nippon Telegraph and Telephone Corporation (NTT)

SATELLITE COMMUNICATION ENGINEERING II

May 14, '96 - July 26, '96, 11 participants

衛星通信技術II

J-96-00099

- PURPOSE** This course will provide those who are in charge of planning, management and operation of satellite communications, with the opportunity to increase basic knowledge of the latest technology in satellite communication engineering, so as to make good use of the merits of advanced satellite communications in establishing/improving/operating their systems.
- MAIN FEATURES OF CURRICULUM** The curriculum mainly consists of lectures on (1) basic and advanced technologies of INTELSAT (2) basic and advanced technology of INMARSAT (3) some features of non-INTELSAT and non-INMARSAT systems (4) other related telecommunications systems (5) planning, administration and management in aspects (6) field practice at an earth station and observation trips to relevant facilities. Participants are required to take exams at the beginning and the end of the course.
- QUALIFICATION OF APPLICANT** (1) university graduate in telecommunications and/or electrical/electronic engineering or equivalent (2) have fundamental knowledge of radio communication engineering such as microwave propagation, microwave elements and microwave communication system (3) have experience of not less than three years in this field (4) currently engaged in the field of satellite communication services (especially international ones) (5) under 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Kokusai Denshin Denwa Co., Ltd. (KDD) (3) KDD engineering and Consulting Inc. (KEC)

**DIGITAL TELECOMMUNICATION NETWORK
PLANNING AND DESIGNING**

Oct. 22, '96 - Dec. 15, '96, 18 participants

デジタル通信網計画設計

J-96-00508

- 1. PURPOSE** The purpose of the course is to provide engineers in the field of telecommunications with practical knowledge and techniques on the outline of systems, fundamental network design, and network planning.
- 2. MAIN FEATURES OF CURRICULUM** The curriculum comprises of three major components; namely (1) fundamental telecommunication network design, (2) outline of various systems, and (3) telecommunication network planning. Case-study method is employed to obtain more concrete understanding of network planning. Observation trips to relevant factories and telecommunication facilities are planned to augment the training.
- 3. QUALIFICATION OF APPLICANT** (1) university /college graduate in telecommunication, electrical engineering or electronics, or equivalent (2) working in telecommunication common carrier organizations with minimum experience of 3 years (3) currently engaged in network planning or so scheduled (4) expected to continue working for network planning after participating in the course (5) between 25 and 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Central Training Institute (CTI), Nippon Telegraph and Telephone Corporation (NTT)

**TELECOMMUNICATION OUTSIDE PLANT
ENGINEERING TECHNIQUE**

Aug. 12, '96 - Dec. 12, '96, 10 participants

通信線路技術指導者育成

J-96-00404

- 1. PURPOSE** The principal purposes of this training course are: (1) to provide engineers with knowledge of telecommunication line engineering to improve their leadership (2) to enable participants to learn line techniques, line operation, maintenance systems as well as solving their problems (3) to promote international understanding through group activities and joining local communities
- 2. MAIN FEATURES OF CURRICULUM** The course is conducted in the form of lectures, discussions and practice, emphasizing on the job training. Visits to related factories and industries are also arranged. The training subjects covered in the course are: (1) basic knowledge on outside equipment (2) construction (3) maintenance engineering (4) design engineering (5) construction and maintenance of communication equipment and devices (6) basic knowledge on inside plant (7) safety and quality control
- 3. QUALIFICATION OF APPLICANT** (1) telecommunication engineer or supervisor (2) university graduate or equivalent (3) have more than three years' practical experience in outside plant systems of telephone (4) be 35 years of age or less
- 4. TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu Branch, Nippon Telegraph and Telephone Corporation (NTT)
- 5. REMARKS** (1) A compulsory 75 hour Japanese language course will be conducted prior to the technical training.

**SEMINAR ON TELECOMMUNICATION
MANAGEMENT**

Oct. 8, '96 - Oct. 25, '96, 10 participants

電気通信経営管理セミナー

J-96-00507

- 1. PURPOSE** The purpose of this seminar is to provide the participants with the knowledge of telecommunications companies' methodology of administration, management and privatization of NTT to cope with problems in the field of management. Another purpose is to introduce participants the latest technology for the future planning of respective countries.
- 2. MAIN FEATURES OF CURRICULUM** This seminar covers the following topics. (1) management (2) planning (3) fund raising (4) equipment and material supply (5) training (6) marketing (7) privatization (8) overseas engineering cooperation (9) research and development (10) TQC (Total Quality Control)
- 3. QUALIFICATION OF APPLICANT** (1) manager or equivalent ranking staff belonging to telecommunications-conducting-body (organization)
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Nippon Telegraph and Telephone Corporation (NTT)

**TELECOMMUNICATION EXECUTIVES'
SEMINAR II**

May 28, '96 - June 14, '96, 11 participants

電気通信幹部セミナーII

J-96-00064

- 1. PURPOSE** This seminar is designed to: (1) promote more cooperative relationships in the field of telecommunications, (2) familiarize the participants with the current situation in telecommunications administration and in the telecommunications business, (3) invite the participants to discuss improvement and expansion of telecommunications networks, which are crucial topics in every country.
- 2. MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of Japanese system and discussion by participants. The main themes are: (1) present status of telecommunications (2) telecommunication administration (a) significance, new development and reinforcement (3) reform of telecommunication legal structure (4) new services (5) human resources development
- 3. QUALIFICATION OF APPLICANT** director general or equivalent high-ranking official responsible for management or administration of public telecommunications in governmental or operational organizations
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Cooperation Bureau, Ministry of Posts and Telecommunications

**TELECOMMUNICATIONS NETWORK
(SWITCHING ENGINEERING)**

June 4, '96 - Aug. 3, '96, 14 participants

通信網(交換技術)

J-96-00216

- 1. PURPOSE** The purpose of the course is to introduce the configuration, maintenance and series of procedures from traffic forecasting to plant design of digital switching systems.
- 2. MAIN FEATURES OF CURRICULUM** In this course, major technical aspects related to a telecommunications network will be discussed. Main focus, however, will be placed upon switching technology. The course curriculum covers: (1) digital switching system, using D70 system as an example (2) outline of such peripheral technology as transmission, radio communication, outside plant, common channel signalling, ISDN, etc. (3) traffic management, equipment estimation, maintenance management, economic comparison, etc. (4) practical exercise on D70 system.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate specializing in telecommunications and/or electrical engineering or equivalent (2) under 40 years of age (3) working for common carrier organizations with at least five years of practical experience on their own switching systems
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Central Training Institute (CTI), Nippon Telegraph and Telephone Corporation (NTT)

**DIGITAL TRANSMISSION SYSTEMS
ENGINEERING**

Sep. 9, '96 - Dec. 8, '96, 12 participants

デジタル伝送技術

J-96-00344

- 1. PURPOSE** The purpose of the course is to introduce the practical knowledge for the designing and administrative techniques on digital transmission system.
- 2. MAIN FEATURES OF CURRICULUM** This course will be conducted in the form of lectures, practical exercises, discussions and observation tour. The main themes are: (1) digital transmission technology (2) optical fiber transmission technology (3) network planning and design (4) optical fiber line technology (5) microwave communication system (6) administration technology
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent in telecommunication or electrical engineering (2) working for telecommunication administrations or common carrier organization for at least five years (3) have a knowledge of the basic concepts on the digital transmission engineering (4) under 40 years of age.
- 4. TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) Suzuka Training Institute, NTT
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

FIBER OPTIC OUTSIDE PLANT ENGINEERING

Jan. 7, '97 - Mar. 14, '97, 10 participants

光線路技術

J-96-00333

- 1. PURPOSE** The purpose of the course is to train participants to be able to operate and maintain optical fiber transmission systems introduced or proposed in each country. The course outlines the basic theory of the optical fiber cable, optical devices, etc., and planning, designing and construction of the system. The training includes sufficient practical training in the transmission field.
- 2. MAIN FEATURES OF CURRICULUM** This course will be conducted in the form of lectures, practical exercises, discussions and observation tour. The main themes are: (1) optical fiber line technology (2) optical fiber transmission technology (3) digital transmission technology (4) outside plant technology (5) administration technology
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent in telecommunication or electrical engineering (2) working for telecommunication administrations or telecommunication common carrier organizations for at least 5 years (3) have a knowledge of the basic concepts on the digital transmission engineering (4) under 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) Suzuka Training Institute, NTT
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted along with the technical training for 36 hours.

**INTERNATIONAL INTEGRATED SERVICE DIGITAL
NETWORK TELECOMMUNICATION ENGINEERING**

Sep. 3, '96 - Oct. 25, '96, 12 participants

国際ISDN通信技術

J-96-00457

- 1. PURPOSE** The purpose of this course is to introduce the participants to fundamental knowledge about up-to-date international ISDN services and technologies such as digital transmission, digital switching, and user network interface, etc., through lectures and field trips.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of theories mainly on the following subjects: (1) outline (a) new technology trends (b) outline of ISDN (c) broad band ISDN (2) basic technology and services (a) ISDN services (b) network operation (c) OSI (d) user-network interface (e) signalling system No. 7 (f) XC-31 FMBS (g) digital satellite communication system for ISDN (h) optical fiber transmission system (i) switching system terminals (j) ISDN layer/specification (k) terminals (3) related equipment (a) digital transmission (b) digital switching
- 3. QUALIFICATION OF APPLICANT** (1) engineer engaged in the field of international telecommunication (2) person with a fundamental knowledge of digital communications (such as digital transmission principles of PCM, multiplexing, synchronization and digital switching) (3) between 26 and 42 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Kokusai Denshin Denwa Co., Ltd. (KDD) (3) KDD Engineering and Consulting Inc. (KEC)