

**OUTLINE OF
GROUP TRAINING COURSES
&
TRAINING COURSES
SPECIALLY OFFERED
IN
JAPANESE FISCAL YEAR 1997**

COURSES STARTING BETWEEN APRIL 1997 AND MARCH 1998

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**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
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COURSES STARTING BETWEEN APRIL 1997 AND MARCH 1998

**JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)**

GROUP TRAINING COURSES
 集団コース

DEVELOPMENT PLAN 開発計画

(Course No.)

J-97-00171	Development Policies	27
	開発政策	
J-97-00453	Seminar on Economic Development Policies	27
	経済政策セミナー	

ADMINISTRATION 行政

J-97-00015	Seminar on Control of Drug Offences II	27
	薬物犯罪取締セミナーII	
J-97-00029	Crime Prevention (Treatment of Offenders) II	27
	犯罪防止(矯正保護)II	
J-97-00092	Crime Prevention (Senior Seminar) II	28
	犯罪防止(上級)II	
J-97-00110	Crime Prevention (The Administration of Criminal Justice) II	28
	犯罪防止(刑事司法)II	
J-97-00059	Local Government II	28
	地方行政II	
J-97-00091	National Government Administration II	28
	国家行政II	
J-97-00320	Seminar on National Government Administration (Senior Class Officials)	29
	上級国家行政セミナー	
J-97-00569	Seminar on Government Human Resource Management	29
	上級人事管理セミナー	
J-97-00194	Seminar on Criminal Investigation (Organized Crime)	29
	国際捜査セミナー(組織犯罪)	
J-97-00342	Rescue and First Aid Techniques	29
	救急救助技術	
J-97-00362	Fire Fighting Techniques	30
	消火技術	
J-97-00395	Fire Service for Administrative Officers	30
	消防行政管理者	
J-97-00477	Disaster Management	30
	防災技術	
J-97-00478	Fire Prevention Techniques	30
	火災予防技術	
J-97-00257	Government Auditing Seminar (Computer Auditing)	31
	政府会計検査セミナー(コンピュータ会計検査)	
J-97-00399	Government Information Systems	31
	行政情報システム	

GROUP TRAINING COURSES 集団コース

(Course No.)		
J-97-00217	Seminar on Taxation (General Tax Course) 国際税務行政セミナー(一般租税コース)	31
J-97-00115	Seminar on taxation (Senior Tax Course) II 国際税務行政セミナー(上級租税コース) II	31
J-97-00123	Customs Techniques II 税関行政II	32
J-97-00506	Environmental Administration 環境行政	32
J-97-00329	Environmental Engineering (Air Pollution Control) 環境技術(大気保全)	32
J-97-00448	Environmental Monitoring (Water Quality) 環境モニタリング(水質)	32
J-97-00449	Nature Conservation and Natural Parks Management 自然保護管理	33
J-97-00450	Lake Water Quality Management 湖沼水質保全	33
J-97-00468	Environmental Management for Enclosed Coastal Seas 閉鎖性海域の環境管理技術	33
J-97-00289	Marine Pollution Surveillance and Control 海洋保全	33
J-97-00382	Air Pollution Control 大気汚染対策	34
J-97-00470	Air Pollution Source Monitoring Practice 大気汚染源モニタリング実習	34
J-97-00447	Seminar on Ozone Layer Protection and Applicable Technologies オゾン層保護と対策技術	34
J-97-00454	Environmental Radioactivity Analysis and Measurement 環境放射能分析	34
J-97-00476	Environmental Impact Assessment 環境影響評価	35
J-97-00311	Industrial Pollution Control Engineering 産業環境対策	35
J-97-00398	Industrial Wastewater Treatment Technique 産業廃水処理技術	35
J-97-00469	Domestic Wastewater Treatment Technique 生活排水対策	35
J-97-00572	Training Course to Develop National Inventories and Strategies Against Climate Change 地球温暖化対策コース	36
J-97-00060	Practical Statistics II 統計実務II	36
J-97-00254	Automatic Data Processing for Trainers 研修指導官のためのADP	36
J-97-00567	Analysis and Interpretation of Statistics 統計の解析及び解釈	36
J-97-00555	Information Processing Personnel (DP Division Manager) 情報処理要員養成(情報処理部門管理者)	37
J-97-00557	Information Processing Personnel (Client-Server System Designer (PC Server) (A)) 情報処理要員養成(クライアント/サーバ・システム設計者<PCサーバ>(A))	37

(Course No.)

J-97-00558	Information Processing Personnel..... (Client-Server System Designer (PC Server) (B)) 情報処理要員養成(クライアント/サーバ・システム設計者<PCサーバ>(B))	37
J-97-00559	Information Processing Personnel..... (Online Database System Designer (UNIX Server)) 情報処理要員養成(オンライン・データベース設計者(UNIXサーバ))	37
J-97-00560	Information Processing Personnel..... (Client-Server System Designer (UNIX Server) (A)) 情報処理要員養成(クライアント/サーバ・システム設計者(UNIXサーバ) (A))	38
J-97-00561	Information Processing Personnel..... (Client-Server System Designer (UNIX Server) (B)) 情報処理要員養成(クライアント/サーバ・システム設計者(UNIXサーバ) (B))	38
J-97-00564	Information Processing Personnel (Network Engineer (A))..... 情報処理要員養成(ネットワーク技術者(A))	38
J-97-00562	Information Processing Personnel (Senior System Analyst/Designer (A))..... 情報処理要員養成(上級システム・アナリスト(A))	38
J-97-00563	Information Processing Personnel (Senior System Analyst/Designer (B))..... 情報処理要員養成(上級システム・アナリスト(B))	39
J-97-00556	Information Processing Personnel (Instructor)..... 情報処理要員養成(情報処理技術インストラクター)	39
J-97-00566	Information Processing Personnel (PC System Analyst/Designer/Programmer)..... 情報処理要員養成(パソコン・システム開発者基礎)	39
J-97-00565	Information Processing Personnel (Network Engineer (B))..... 情報処理要員養成(ネットワーク技術者(B))	39
J-97-00431	Electronics Engineering (Microcomputer)..... エレクトロニクス技術	40
J-97-00485	Office Automation Promotion..... OA化推進	40

PUBLIC UTILITY WORKS 公共事業

J-97-00100	Water Supply Engineering II..... 上水道施設 II	40
J-97-00167	Sewage Works Engineering II..... 下水道技術 II	40
J-97-00111	Solid Waste Management and Night Soil Treatment II..... 廃棄物処理 II	41
J-97-00487	Waste Management Practice..... 廃棄物処理実習	41

TRANSPORTATION AND TRAFFIC 運輸交通

J-97-00323	Administration System for Motor Vehicle..... 自動車行政制度	41
J-97-00388	Modernization of Cargo Transport (Physical Distribution)..... 物流近代化	41
J-97-00103	Seminar on Highway Construction II..... ハイウェイセミナー II	42

GROUP TRAINING COURSES 集団コース

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J-97-00480	Project Planning for Urban Transport Infrastructure 都市交通プロジェクト計画	42
J-97-00462	Railway Management Planning 鉄道経営計画	42
J-97-00499	Seafarer's Management System 船員管理システム	42
J-97-00379	Marine Technique (Navigator) 航海技術(航海士)	43
J-97-00380	Marine Technique (Engineer) 航海技術(機関士)	43
J-97-00148	Aids to Marine Navigation II 航路標識 II	43
J-97-00343	Maritime Search and Rescue Operation and Maritime Disaster Prevention 救難防災	43
J-97-00440	Seminar on Port Administration and Management 港湾管理運営セミナー	44
J-97-00035	Port and Harbour Engineering II 港湾工学 II	44
J-97-00331	Development of Container Terminal コンテナ埠頭整備計画	44
J-97-00318	Seminar on Aviation Security 航空保安セミナー	44
J-97-00400	Seminar on Air Traffic Control 航空管制セミナー	45
J-97-00222	Urban Transport Seminar 都市交通セミナー	45
J-97-00245	Comprehensive Urban Transportation Planning 総合都市交通施設計画	45
J-97-00012	Seismology and Earthquake Engineering II 地震工学 II	45
J-97-00187	Meteorology II 気象学 II	46
J-97-00401	Volcanology and Volcanic Sabo Engineering 火山学・火山砂防工学	46

INFRASTRUCTURE 社会基盤

J-97-00071	Bridge Engineering II 橋梁工学 II	46
J-97-00209	Construction Engineering II 建設施工 II	46
J-97-00385	Construction Project Manager 建設施工管理者	47
J-97-00479	Seminar on Advanced Technology of Construction 建設工事先進技術セミナー	47
J-97-00162	Maintenance of Construction Machinery II 建設機械整備 II	47
J-97-00232	Soil Mechanics and Foundation Engineering 土質及び基礎工学	47

(Course No.)

J-97-00258	Regional Development Planning Seminar	48
	国土開発セミナー	
J-97-00402	Seminar on Administration for Disaster Prevention	48
	防災行政管理者セミナー	
J-97-00169	River and Dam Engineering	48
	河川及びダム工学	
J-97-00027	City Planning II	48
	都市計画 II	
J-97-00325	Urban Development (Focused on Land Readjustment Measures)	49
	都市整備	
J-97-00230	Housing Policy	49
	住宅政策	
J-97-00349	Seminar on Improvement of Housing and Living Environments	49
	住宅・住環境改善セミナー	
J-97-00270	Architectural Engineering	49
	建築技術	
J-97-00048	Surveying and Mapping II	50
	測量技術 II	
J-97-00493	Hydrographic Survey (International Accredited Category B Course)	50
	水路測量(国際認定B級)	
J-97-00332	Nautical Charting	50
	海図作製	

POSTAL SERVICE, TELECOMMUNICATION AND BROADCASTING 通信・放送
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J-97-00180	Radio Frequency Monitoring II	50
	電波監視 II	
J-97-00098	Postal Executives' Seminar II	51
	郵政幹部セミナー II	
J-97-00403	Executive's Seminar on Postal Savings Services	51
	郵便貯金国際幹部セミナー	
J-97-00024	International Telecommunication Services (Administration and Commercial) II	51
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J-97-00267	International Data Communications Engineering	51
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J-97-00288	Data Communication Processing Engineering	52
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J-97-00099	Satellite Communication Engineering II	52
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J-97-00508	Digital Telecommunication Network Planning and Designing	52
	デジタル通信網計画設計	
J-97-00404	Telecommunication Outside Plant Engineering Techniques (on the Job Training)	52
	通信線路技術指導者育成	
J-97-00507	Seminar on Telecommunications Management	53
	電気通信経営管理セミナー	
J-97-00064	Telecommunications Executive's Seminar II	53
	電気通信幹部セミナー II	
J-97-00216	Telecommunications Network (Switching Engineering)	53
	通信網(交換技術)	



GROUP TRAINING COURSES

集団コース

(Course No.)

J-97-00344	Digital Transmission Systems Engineering	53
	デジタル伝送技術	
J-97-00333	Fiber Optic Outside Plant Engineering	54
	光線路技術	
J-97-00457	International Integrated Service Digital Network Telecommunication Engineering	54
	国際ISDN通信技術	
J-97-00500	Integrated Services Digital Network Basic Engineering	54
	ISDN基礎技術	
J-97-00458	Rural Telecommunication Engineering	54
	ルーラル通信技術	
J-97-00459	CBT Courseware Development Technology for Telecommunication	55
	電気通信CBT教材開発手法	
J-97-00495	Television Programme Production Engineering II	55
	テレビジョン番組制作技術II	
J-97-00496	Television Programme Production	55
	テレビジョン番組制作	
J-97-00497	Television Engineering	55
	テレビジョン放送技術	
J-97-00498	Television Social Education Programme II	56
	テレビジョン社会教育番組II	
J-97-00139	Broadcasting Executive's Seminar II	56
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J-97-00405	Audio Broadcasting Engineering	56
	音声放送技術	

AGRICULTURE 農業

J-97-00007	Agricultural Co-operatives II	56
	農業協同組合II	
J-97-00008	Agricultural Extension Service for Leader II	57
	農業普及指導者II	
J-97-00406	Women Leaders of Farm Household Development	57
	農家生活水準向上女性指導者	
J-97-00291	Rice Research Techniques	57
	稲研究	
J-97-00120	Vegetable Cultivation Technology for Extension	57
	野菜栽培技術普及	
J-97-00292	Vegetable Seed Production	58
	野菜採種	
J-97-00322	Sugar Cane Research	58
	サトウキビ研究	
J-97-00237	Pesticide Utilization and Safety	58
	農業の利用と安全性	
J-97-00503	Integrated Pest Management for Plant Protection	58
	植物保護のための総合防除	
J-97-00275	Plant Genetic Resources	59
	植物遺伝資源	
J-97-00407	Plant Quarantin (Disinfestation of Fruit Flies)	59
	植物検疫(ミバエ類殺虫技術)	

(Course No.)

J-97-00408	Soil Analysis and Improvement	59
	土壤分析改良	
J-97-00326	Effective Utilization of Tropical Agriculture and Forestry Resources	59
	熱帯農林資源の有効利用	
J-97-00474	Agricultural & Rural Development with Environmental Conservation	60
	農業・農村環境保全	
J-97-00484	Distribution of Fresh Fruits and Vegetables	60
	青果物流通	
J-97-00568	Statistical Information System for Agriculture	60
	農業統計情報システム	
J-97-00093	Irrigation and Drainage II	60
	灌漑排水 II	
J-97-00159	Agricultural Land and Water Resources Development II	61
	農地水資源開発 II	
J-97-00348	Irrigation Water Management	61
	水管理	
J-97-00409	Water Resources Development and Its Use in Arid Areas	61
	乾燥地水資源の開発と利用	
J-97-00050	Farm Mechanization II	61
	農業機械化 II	
J-97-00276	Farm Machinery Design	62
	農業機械設計	
J-97-00433	Agricultural Machinery Management	62
	農業機械管理	
J-97-00446	Farm Machinery Testing	62
	農業機械評価試験	
J-97-00514	Post-Harvest Rice Processing	62
	米の収穫後処理技術	

ANIMAL HUSBANDRY (畜産)

J-97-00061	Poultry Production and Breeding Technology	63
	鶏育種・生産技術	
J-97-00494	Breeding and Artificial Insemination in Cattle	63
	牛育種・人工授精	
J-97-00317	Embryo Transfer for Cattle	63
	受精卵移植技術	
J-97-00444	Twining and In Vitro Fertilization Technology for Cattle	63
	双子生産・体外受精技術	
J-97-00334	Dairy Farming & Related Industries	64
	酪農振興・検査技術	

FORESTRY (林業)

J-97-00335	Forest Soils	64
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J-97-00445	Forest Management and Planning	64
	森林管理計画	



GROUP TRAINING COURSES

集団コース

(Course No.)

J-97-00501 Forest Research 64
森林研究

J-97-00386 Wood Based Materials Application Technology 65
木質材料高度利用技術

FISHERIES 水産

J-97-00518 Seminar on Fisheries Development Planning 65
水産開発セミナー

J-97-00520 Fisheries Management and Cooperatives (Intensive) 65
漁業協同組合(インテンシブ)

J-97-00215 Fishing Gear Development and Design 65
漁具開発設計

J-97-00432 Coastal Fishing Training and Extension 66
沿岸漁業訓練普及

J-97-00236 General Aquaculture 66
養殖一般

J-97-00336 Fisheries Oriented Resource Management 66
資源管理型漁業

J-97-00351 Fish Pathology and Environmental Management of Aquaculture 66
魚類防疫・環境管理

J-97-00277 Hull and Engine Maintenance of Small Fishing Boat 67
小型漁船の船体・機関保守

J-97-00515 Handling and Processing of Fish and Marine Products 67
漁獲物処理

J-97-00517 Quality Assurance of Marine Food 67
水産食品品質保証

MINING AND MINERALS 鉱業

J-97-00269 Coal Mine Safety 67
石炭鉱山保安

J-97-00441 Mining and Metallurgy 68
資源開発

J-97-00412 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-97-0074 Senior Class Seminar on Small Industry Development II 68
中小工業開発セミナーII

J-97-00105 Implementation of TQC and Standardization Activities II 68
TQC・標準化活動実践II

J-97-00316 Senior 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-97-00242 Examination Practice on Industrial Property 69
工業所有権審査実務

(Course No.)		
J-97-00261	Administration of Industrial Property	69
	工業所有権行政	
J-97-00513	Legal Metrology	69
	法定計量	
J-97-00235	Conformity Assessment Systems for Industry	70
	適合性評価制度(工業分野)	
J-97-00268	Polymer and Chemical Technology	70
	物質工学研究	
J-97-00337	Catalytic Science	70
	触媒科学研究	
J-97-00357	Bioindustries	70
	バイオインダストリー	
J-97-00381	Organic Fine-Chemicals Technology	71
	有機ファインケミカルズ工学	
J-97-00394	Polymer Materials and Technology	71
	高分子材料工学	
J-97-00285	Industrial Biotechnology	71
	生命工学研究	
J-97-00443	Advanced Materials	71
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J-97-00021	Qualified Metal Casting Technology II (Advanced Foundry Engineering)	72
	高品位鋳物技術 II	
J-97-00066	Surface Finishing Technology for Materials	72
	(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	
J-97-00256	Steel Properties and its Applications	72
	鋼材の加工と加工特性	
J-97-00260	Heat Treatment Technology	72
	熱処理技術	
J-97-00310	Automatic Control (General Introduction)	73
	自動制御(基礎)	
J-97-00338	Machine Condition Diagnosis Technique	73
	設備診断技術	
J-97-00413	Plant Maintenance Management	73
	保全管理	
J-97-00175	High Technology of Metal Works II	73
	金属加工高品質化技術 II	
J-97-00266	Designing and Improvement of Production System	74
	生産システム改善技術	
J-97-00383	Air-Conditioning Engineering	74
	空調技術	
J-97-00414	Material Handling System in the Plant for High Productivity	74
	工場搬送システム	
J-97-00415	Oil Hydraulics and Mechatronics (Machine Drive and Control Technology)	74
	油圧とメカトロニクス(機械の駆動と制御)	
J-97-00416	Inspection & Testing Techniques for Household Electrical Appliances	75
	家庭用電気製品検査技術	
J-97-00464	Ship Safety and Marine Pollution Prevention	75
	Implementation of the International Conventions-	
	船舶安全・海洋汚染防止	

GROUP TRAINING COURSES
集団コース

(Course No.)

J-97-00475	Automobile Safety and Pollution Control Technology 75	自動車の安全・公害対策技術
J-97-00488	Renovation of Industrial Equipment 75	設備のリノベーション
J-97-00417	Inspection and Testing Technique for Textile Products 76	繊維製品検査技術
J-97-00505	Ceramic Kiln and Firing Technology 76	セラミック窯炉及び焼成技術
J-97-00387	High Technology Materials Application (Fine Ceramics, Composites, Metals) 76	ファインセラミックス応用技術
J-97-00239	Packaging Engineering 76	包装技術
J-97-00366	Advanced Industrial Technology 77	産業技術研究
J-97-00363	Industrial Pollution Control Research 77	産業公害防止

ENERGY エネルギー

J-97-00315	Energy Conservation 77	省エネルギー
J-97-00418	Energy Management 77	エネルギー管理
J-97-00055	Hydro-Electric Power Engineering II (for Electrical/Mechanical Engineers) 78	水力発電 II (電気・機械)
J-97-00352	Operation and Maintenance of Coal-Fired Thermal Power Plants 78	石炭火力発電
J-97-00419	Nuclear Power Generation 78	原子力発電
J-97-00153	Electric Power Management II 78	電気事業経営 II
J-97-00512	Electric Power Distribution System Management 79	配電システム管理
J-97-00570	Thermal-Electric Power Engineering 79	火力発電
J-97-00312	Coal Science and Technology 79	石炭資源開発・利用
J-97-00353	Coal Mining and Preparation 79	採炭・選炭技術
J-97-00303	Nuclear Technology 80	原子力基礎技術
J-97-00354	Seminar on Nuclear Safety and Regulation 80	原子力安全規制行政セミナー
J-97-00442	Geothermal Energy (Advanced) 80	地熱エネルギー・アドバンス
J-97-00482	Radiological Protection for Radiation Safety Officers at Nuclear Facilities 80	放射線安全管理実務者

(Course No.)

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1. *Pharmaceutical industry* – The pharmaceutical industry is the largest of the three industries, with sales of \$10.5 billion in 1997. It is the only industry that has not experienced a decline in sales since 1990. The industry is dominated by a few large firms, with the top five firms accounting for 40% of sales. The industry is also characterized by high R&D expenditures, with the top five firms accounting for 60% of total R&D.

1. *Chlorophyll a* (Chl *a*)

DEVELOPMENT POLICIES

Aug. 26, '97 - Mar. 8, '98, 12 participants

開発政策

J-97-00171

- 1. PURPOSE** The purpose of the course is to train the participants to learn the way of applying development economics to development planning in respective 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.
- 2. 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 Thesis. All the participants will be requested to write a research paper based on the knowledge and techniques of economic analysis.
- 3. 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)
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Development Center of Japan (IDCJ)

SEMINAR ON ECONOMIC DEVELOPMENT POLICIES

June 18, '97 - Aug. 9, '97, 16 participants

経済政策セミナー

J-97-00453

- 1. PURPOSE** To expose the participants to the economic development policies to be interactively presented in the forms of lectures, field trips, etc. with the particular emphasis on the empirical aspects distilled from the Japan's experiences, by which the participants will in turn produce and present the papers on the economic development policies related to the specific subjects as they are "structural adjustment and industrialization" for the fiscal year 1997
- 2. MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the seminar: (1) country report presentation and discussion together with area study, (2) lecture-cum-discussion (a) Japan's economic development and policies, (b) structural adjustment policies or industrialization, (c) economic analysis method, (d) Japan's economic cooperation (3) field trip and study visits, (4) final report writing, presentation, and discussions
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Economic Planning Agency (EPA) (3) Daiwa Institute of Research Ltd. (DIR)

SEMINAR ON CONTROL OF DRUG OFFENCES II

Oct. 12, '97 - Oct. 29, '97, 18 participants

薬物犯罪取締セミナー II

J-97-00015

- 1. 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.
- 2. 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 organization (Yakuza) (2) presentation and discussion (a) major drug problems facing each society (b) current situation of drug syndicates (c) way to improve international investigative cooperation (d) investigative methods/techniques
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Police Agency (NPA)

CRIME PREVENTION (TREATMENT OF OFFENDERS) II

Apr. 7, '97 - July 6, '97, 15 participants

犯罪防止(矯正保護) II

J-97-00029

- 1. 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.
- 2. 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. The main theme is subject to change.
- 3. 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
- 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)

CRIME PREVENTION (SENIOR SEMINAR) II

Jan. 19, '93 - Mar. 1, '93, 20 participants

犯罪防止(上級) II

J-97-00092

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 6, '97 - July 16, '97, 10 participants

地方行政 II

J-97-00059

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 to provide 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) over 30 but under 40 years of age (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 (LAC), Ministry of Home Affairs

5. REMARKS (1) Country Reports will be highly utilized both for the screening of participants and for the comparative studies.

CRIME PREVENTION (THE ADMINISTRATION OF CRIMINAL JUSTICE) II

Aug. 25, '97 - Nov. 23, '97, 15 participants

犯罪防止(刑事司法) II

J-97-00110

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 13, '97 - June 29, '97, 10 participants

国家行政 II

J-97-00091

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 which in the 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. 6, '97 - Dec. 14, '97, 10 participants

上級国家行政セミナー

J-97-00320

- 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 economic development (b) system 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
- 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 of which in the government) (3) between 40, and 50 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Personnel Authority

SEMINAR ON GOVERNMENT HUMAN RESOURCE MANAGEMENT

Sep. 2, '97 - Sep. 28, '97, 10 participants

上級人事管理セミナー

J-97-00569

- 1. PURPOSE** This seminar introduces participants to the current Japanese human resource management policy of the government, which supports national prosperity. Although the actual framework of human resource management varies from country to country, understanding the dynamism of human resource management in Japan may be of great help in identifying crucial problems of human resource management in other countries. The purpose of this seminar is thus to assist participants in forming policies of human resource management which are suitable for their own country's circumstances.
- 2. MAIN FEATURES OF CURRICULUM** The following topics will be covered in the seminar: (1) overview of human resource management (HRM) (a) introduction to civil service system (b) role of bureaucrats (2) major issues of HRM (a) career development (b) remuneration system (c) work ethics (3) practical aspects of Japanese HRM (a) on-the-job training and information sharing (b) HRM in private companies
- 3. QUALIFICATION OF APPLICANT** (1) senior class official (division director or above) in charge of personnel policy formation in central personnel agencies (2) university graduate or equivalent, with occupational experience of more than ten years (at least two years of which in the government)
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Personnel Authority

SEMINAR ON CRIMINAL INVESTIGATION (ORGANIZED CRIME)

Apr. 1, '97 - Apr. 25, '97, 10 participants

国際捜査セミナー(組織犯罪)

J-97-00194

- 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 and firearms control (d) crime identification and info-communication technique (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)

RESCUE AND FIRST AID TECHNIQUES

Aug. 19, '97 - Nov. 16, '97, 6 participants

救急救助技術

J-97-00342

- 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) have a sufficient experience in rescue service and expected to play key roles in this field (2) expected to become a leader in the field of rescue service (3) under 30 years of age in principle
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Fire and Disaster Management Agency (FDMA), 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 7, '97 - Oct. 24, '97, 10 participants

消火技術

J-97-00362

- 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 45-hour Japanese language course will be conducted prior to the technical training.

DISASTER MANAGEMENT

Oct. 6, '97 - Nov. 30, '97, 6 participants

防災技術

J-97-00477

- 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 Disaster Prevention organization presently engaged in planning/drafting of Disaster Prevention System, or in administrative section for the Disaster Prevention implementation (3) not more than 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Fire and Disaster Management Agency (FDMA), Ministry of Home Affairs

FIRE SERVICE FOR ADMINISTRATIVE OFFICERS

Sep. 16, '97 - Nov. 7, '97, 8 participants

消防行政管理者

J-97-00395

- 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) over 25 but 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 and Disaster Management Agency (FDMA), Ministry of Home Affairs

FIRE PREVENTION TECHNIQUES

Sep. 15, '97 - Dec. 1, '97, 6 participants

火災予防技術

J-97-00478

- 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 Bureau (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)

Feb. 16, '98 - Mar. 22, '98, 12 participants

政府会計検査セミナー(コンピュータ会計検査)

J-97-00257

- 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.

GOVERNMENT INFORMATION SYSTEMS

Jan. 15, '98 - Mar. 15, '98, 10 participants

行政情報システム

J-97-00399

- 1. 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 (Government Information Systems), and to train them to implement GIS efficiently in their respective countries.
- 2. MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures and individual research work. The main topics of the lectures are: (1) Japan's 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 group work.
- 3. 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.
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Government Information Systems Planning Division, Administrative Management Bureau, Management and Coordination Agency.

SEMINAR ON TAXATION (GENERAL TAX COURSE)

Aug. 25, '97 - Dec. 7, '97, 20 participants

国際税務行政セミナー(一般租税コース) J-97-00217

- 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) II

Sep. 7, '97 - Oct. 4, '97, 10 participants

国際税務行政セミナー(上級租税コース) II J-97-00115

- 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) Enhancing Tax Compliance (ii) Consumption Tax Enforcement (iii) Practice of Examination (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** Be 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 (NTA).

CUSTOMS TECHNIQUES II

Aug. 26, '96 - Oct. 19, '97, 20 participants

税関行政 II

J-97-00123

- 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 systems for the revision of tariff rates (3) cargo and passenger processing in general and computerized clearance system (4) classification techniques under the Harmonized System (5) WTO Valuation Agreement and post clearance audit techniques (6) function and control of Warehousing (7) intelligence management including RISK assessment, profiling and targeting (8) protection of Intellectual Property Right, endangered species and earth environment (9) human resource development programme, with emphasis on the training
- 3. QUALIFICATION OF APPLICANT** (1) currently Customs official at middle level (2) university graduate or equivalent (3) under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Custom and Tariff Bureau, Ministry of Finance

ENVIRONMENTAL ADMINISTRATION

Sep. 30, '97 - Nov. 22, '97, 10 participants

環境行政

J-97-00506

- 1. 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.
- 2. 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
- 3. 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
- 4. 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. 26, '98 - Mar. 15, '98, 10 participants

環境技術(大気保全)

J-97-00329

- 1. 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.
- 2. 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
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Environment Agency (3) Japan Environmental Sanitation Center

**ENVIRONMENTAL MONITORING
(WATER QUALITY)**

Sep. 16, '97 - Nov. 8, '97, 10 participants

環境モニタリング(水質)

J-97-00448

- 1. 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.
- 2. 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
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Environmental Training Institute, Environment Agency

NATURE CONSERVATION AND NATURAL PARKS MANAGEMENT

Aug. 26, '97 - Sep. 30, '97, 10 participants

自然保護管理

J-97-00449

- 1. 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.
- 2. 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.
- 3. 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.
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Nature Conservation Bureau, Environment Agency (3) Japan Wildlife Research Center

SYSTEM OF ENVIRONMENTAL MANAGEMENT FOR ENCLOSED COASTAL SEAS

Aug. 22, '97 - Dec. 3, '97, 6 participants

閉鎖性海域の環境管理技術

J-97-00468

- 1. 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.
- 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. (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.
- 3. 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.
- 4. TRAINING INSTITUTIONS** (1) Hyogo International Centre (HIC), JICA (2) Environmental Conservation Association of Seto Inland Sea (3) Environmental Science Institute of Hyogo Prefecture
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for several days.

LAKE WATER QUALITY MANAGEMENT

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

湖沼水質保全

J-97-00450

- 1. 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.
- 2. 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.
- 3. QUALIFICATION OF APPLICANT** (1) technical administrator in charge of lake or wetland water, or rivers which flow into lakes or wetland (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 water quality in lakes, wetlands and tributary rivers (2) university graduate having majored in environmental engineering, limnology, chemistry, biology, or having equivalent technical knowledge (3) under 35 years of age.
- 4. TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) International Lake Environment Committee Foundation
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

MARINE POLLUTION SURVEILLANCE AND CONTROL

Aug. 14, '97 - Nov. 3, '97, 8 participants

海洋保全

J-97-00289

- 1. 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.
- 2. 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.
- 3. 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.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Center (OIC), JICA (2) Maritime Safety Agency (3) 11th Regional Headquarters of Maritime Safety Agency

AIR POLLUTION CONTROL

Sep. 1, '97 - Dec. 21, '97, 9 participants

大気汚染対策

J-97-00382

- 1. 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.
- 2. 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
- 3. QUALIFICATION OF APPLICANT** (1) administrative engineer with at least 5 years experience in the administration of air pollution prevention (2) between 30 and 40 years of age (3) university graduates or the equivalent
- 4. 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
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

AIR POLLUTION SOURCE MONITORING PRACTICE

Sep. 1, '97 - Dec. 18, '97, 9 participants

大気汚染源モニタリング実習

J-97-00470

- 1. PURPOSE** The purpose of the training course is to upgrade the technical skills of the personnel who are currently engaged in air pollution monitoring practice.
- 2. 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 that the participants acquire the knowledge and skills. and 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
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Kitakyushu City Government
- 5. REMARKS** (1) A compulsory 25-hour Japanese language course will be conducted prior to the technical training.

SEMINAR ON OZONE LAYER PROTECTION AND APPLICABLE TECHNOLOGIES

Jan. 20, '98 - Mar. 7, '98, 18 participants

オゾン層保護と対策技術

J-97-00447

- 1. PURPOSE** The purposes of this seminar are to assist participating Asian countries in: (1) participating in the "Montreal Protocol on Substances that deplete the Ozone Layer"; and (2) complying with the Protocol by providing the latest information on ozone layer depletion, the Montreal Protocol (including amendments), and Japanese legislative and institutional arrangements.
- 2. MAIN FEATURES OF CURRICULUM** The curriculum consists of the following three parts. (1) lectures (a) overview of ozone layer science (b) environmental impact of increased UV-B radiation (c) outline of the Vienna Convention and the Montreal Protocol, and legislative and institutional arrangements in Japan (d) overview of technologies to reduce ozone layer depleting substances (e) state of development on alternative technologies to reduce consumption of ozone layer depleting substances (f) monitoring of ozone layer (2) field visit (3) presentation and discussions (a) presentation of Country Reports (b) group discussions on the promotion of ozone layer protection in the participating countries
- 3. QUALIFICATION OF APPLICANT** (1) senior staff members who are presently engaged in a government administrative organization and are in charge of ozone layer protection (2) university graduate or equivalent (3) from 35 to 50 years of age
- 4. TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA (2) Japan Industrial Conference for Ozone Layer Protection (JICOP) and (3) Japan Environmental Sanitation Center

ENVIRONMENTAL RADIOACTIVITY ANALYSIS AND MEASUREMENT

Sep. 9, '97 - Oct. 19, '97, 5 participants

環境放射能分析

J-97-00454

- 1. 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.
- 2. 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 of tritium, radioactive strontium and uranium in environmental samples, (4) gamma ray spectrometry, (5) environmental gamma ray dose measurement, (6) others
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japan Chemical Analysis Center (JCAC)

ENVIRONMENTAL IMPACT ASSESSMENT

May 27, '97 - July 2, '97, 10 participants

環境影響評価

J-97-00476

- 1. 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.
- 2. 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
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Planning and Coordination Bureau, Environment Agency (3) Overseas Environmental Cooperation Center

INDUSTRIAL WASTE WATER TREATMENT TECHNIQUE

July 21, '97 - Dec. 4, '97, 8 participants

産業廃水処理技術

J-97-00398

- 1. PURPOSE** In industrializing process, 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.
- 2. 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
- 3. QUALIFICATION OF APPLICANT** (1) either engineer in charge of wastewater treatment in governmental or municipal office, or site manager of these organization with more than three years experience (2) university graduate specialized in chemical, mechanical, electrical or civil engineering or have the equivalent academic background (3) 40 years of age or less
- 4. TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Kyushu Institute of Technology (4) Kitakyushu City Government
- 5. REMARKS** (1) A compulsory 20-hour Japanese language course will be conducted prior to the technical training.

INDUSTRIAL POLLUTION CONTROL ENGINEERING

June 9, '97 - Oct. 16, '97, 8 participants

産業環境対策

J-97-00311

- 1. 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.
- 2. 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
- 3. QUALIFICATION OF APPLICANT** (1) Engineers with 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
- 4. 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
- 5. REMARKS** (1) A compulsory 25-hour Japanese language course will be conducted prior to the technical training.

DOMESTIC WASTE WATER TREATMENT TECHNIQUES

Aug. 25, '97 - Dec. 12, '97, 9 participants

生活排水対策

J-97-00469

- 1. 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.
- 2. 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
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Kitakyushu City Government
- 5. REMARKS** (1) A compulsory 25-hour Japanese language course will be conducted prior to the technical training.

TRAINING COURSE TO DEVELOP NATIONAL INVENTORIES AND STRATEGIES AGAINST CLIMATE CHANGE

Jan. 12, '98 - Feb. 28, '98, 15 participants

地球温暖化対策コース

J-97-00572

- 1. PURPOSE** The purpose of this course is to assist participating countries to fulfil the obligation of the Framework Convention on Climate Change, Particularly; (1) developing green house gas emissions inventories and (2) providing such information as to develop strategies on climate change
- 2. MAIN FEATURES OF CURRICULUM** The curriculum consists of the following three parts. (1) lectures on (a) outline of the Framework Convention on Climate Change; (b) the points of THE IPCC SECOND ASSESSMENT REPORT; (c) Japanese actions to address global warming; (d) outline of IPCC guideline on initial communications for main-Annex I Parties; (e) methodologies to calculate GHG emissions; (f) various kind of policies and measures and (g) mitigation measures against global warming in Japan (2) field trip and study visit (3) presentation and discussions (a) presentation of Country Reports (b) group discussions on the promotion of measures against global warming in the participating countries
- 3. QUALIFICATION OF APPLICANT** (1) officials who are presently working in a government administrative organization and are in charge of global warming issue (2) university graduate or equivalent (3) from 35 to 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA (2) Japan Meteorological Association

PRACTICAL STATISTICS II

Sep. 23, '97 - Mar. 22, '98, 33 participants

統計実務 II

J-97-00060

- 1. 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.
- 2. 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
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Statistical Institute for Asia and the Pacific (SIAP)
- 5. 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 6, '97 - July 13, '97, 20 participants

研修指導官のためのADP

J-97-00254

- 1. 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 plans that they can use upon return to their respective countries.
- 2. 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)
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Statistical Institute for Asia and the Pacific (SIAP)
- 5. REMARKS** This course is conducted according to the agreement between the Government of Japan and the United Nations, and organized mainly for ESCAP countries.

ANALYSIS AND INTERPRETATION OF STATISTICS

July 15, '97 - Sep. 21, '97, 10 participants

統計の解析及び解釈

J-97-00567

- 1. PURPOSE** This course is designed for middle level statisticians engaging in data production, and in particular those who analyze, interpret and prepare statistical reports for policy makers, planners and other decision makers. The course aims at assisting countries in strengthening their statistical capabilities; specifically in analysis and interpretation of statistics including report writing and presentation techniques.
- 2. MAIN FEATURES OF CURRICULUM** Curriculum consists of the following subjects: (1) introduction to statistical analysis (2) methods of statistical analysis (3) demographic analysis (4) workshops/seminars (5) statistical computing (6) project work
- 3. QUALIFICATION OF APPLICANT** (1) have a basic knowledge of statistics (2) have a university degree in either statistics, mathematics, economics, sociology or have passed the six months General or Practical Statistics Course of SIAP or have similar training (3) have at least five years experience in population and related work or in the analysis of population and demographic topics; (4) over 30 and under 45 years of age (5) have sufficient knowledge of statistical computing (in particular, applicants should have basic knowledge of DOS, and have some experience with at least one word processing package, and preferably one tabulation and/or graphics package)
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) United Nations Statistical Institute for Asia and the Pacific (SIAP)
- 5. REMARKS** This course is conducted according to the agreement between the Government of Japan and the United Nations, and organized mainly for ESCAP countries.

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

Apr. 4, '97 - Nov. 17, '97, 13 participants

情報処理要員養成(情報処理部門管理者) J-97-00555

- 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. 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 exercises and observation tours. The main themes are: (1) Business analysis, (2) DSS (Decision Support System), (3) Client / Server System Design, (4) Test Planning, (5) Project Management, (6) DP Division Management, (7) System Audit, (8) CASE Study, (9) Project Management Simulation, (10) Advanced Computer Technology, (11) Special Lecture.
- 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 or personnel who are appointed to the manager of information processing division (3) university graduate or equivalent (4) about 30-45 years of age
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**INFORMATION PROCESSING PERSONNEL
(CLIENT-SERVER SYSTEM DESIGNER/PC SERVER (A))**

Apr. 24, '97 - Sep. 4, '97, 10 participants

情報処理要員養成(クライアント/サーバシステム設計者PCサーバ(A)) J-97-00557

- 1. PURPOSE** This course is designed to train personnel who are or will be able to design and develop client / server system using personal computer network. The participants are expected to be able to use hardware and software for computer network, to design and develop high quality and large scale client / server system using C language or 4GL based on requirement, and to evaluate function and quality of system.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. Though lectures and exercises, participants will learn subjects such as system analysis / design, LAN design, system evaluation and programming. C language and 4GL will be used in programming subjects. Though system development workshop, participants will understand subjects deeply and acquire practical skills.
- 3. QUALIFICATION OF APPLICANT** Applicants should (1) be university graduates or equivalent, (2) have one to three year experience in system development and more than three year experience in programming, (3) be person who will be engaged in developing system using personal computer network, (4) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**INFORMATION PROCESSING PERSONNEL
(CLIENT-SERVER SYSTEM DESIGNER/PC SERVER (B))**

Nov. 6, '97 - Mar. 28, '98, 13 participants

情報処理要員養成(クライアント/サーバシステム設計者PCサーバ(B)) J-97-00558

- 1. PURPOSE** This course is designed to train personnel who are or will be able to design and develop client / server system using personal computer network. The participants are expected to be able to use hardware and software for computer network, to design and develop high quality and large scale client / server system using C language or 4GL based on requirement, and to evaluate function and quality of system.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. Though lectures and exercises, participants will learn subjects such as system analysis / design, LAN design, system evaluation and programming. C language and 4GL will be used in programming subjects. Though system development workshop, participants will understand subjects deeply and acquire practical skills.
- 3. QUALIFICATION OF APPLICANT** Applicants should (1) be university graduates or equivalent, (2) have one to three year experience in system development and more than three year experience in programming, (3) be person who will be engaged in developing system using personal computer network, (4) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**INFORMATION PROCESSING PERSONNEL
(ONLINE DATABASE SYSTEM DESIGNER (UNIX SERVER))**

May 8, '97 - Oct. 9, '97, 10 participants

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(UNIXサーバ)) J-97-00559

- 1. PURPOSE** This course is designed to train the personnel who is in charge of online database system development which requires realtime processing and high reliability based on UNIX server.
- 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) CASE Introduction, (2) Structured System Analysis, (3) Structured System Design, (4) Data Communication System Introduction, (5) LAN Design Introduction, (6) WAN Design Introduction, (7) System Response Time Calculation, (8) Client/Server System Design, (9) Distributed DB Introduction, (10) UNIX Database System Usage, (11) Database System Design, (12) UNIX Database Operation and Administration, (13) UNIX Networking Functions, (14) UNIX Database Tuning, (15) Online Transaction Processing Introduction, (16) C Programming, (17) UNIX Shell-programming, (18) UNIX Client Application Programming, (19) UNIX Database Definition, (20) UNIX Server Database Programming, (21) Test Planning, (22) Project Management, (23) System Development Workshop, (24) Special Lecture, Advanced Computer Technology, etc.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, (2) have 1 to 3 year experience in system development and more than 3 year experience in programming, also have more than 1 year experience in programming using C language, (3) have experience in developing UNIX system, (4) be going to be engaged in realtime system development based on UNIX, (5) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**INFORMATION PROCESSING PERSONNEL
(CLIENT-SERVER SYSTEM DESIGNER/UNIX SERVER (A))**

May 15, '97 - Oct. 20, '97, 11 participants

情報処理要員養成(クライアント/サーバシステム設計者UNIXサーバ(A)) J-97-00560

- 1. PURPOSE** This course is designed to train personnel who are presently or will be engaged in design and development of Client-Server System under 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) Data Communication System Introduction, (2) LAN Design introduction, (3) WAN Design Introduction, (4) CASE Introduction, (5) Structured System Analysis, (6) Structured System Design, (7) System Performance Design, (8) Client/Server, (9) Distributed DB Introduction, (10) UNIX Database System Usage, (11) Database System Design, (12) UNIX Database Operation and Administration, (13) UNIX Shell Programming, (14) UNIX Client Application Programming, (15) UNIX Database Definition, (16) LAN System Workshop, (17) Network Operating Systems Fundamentals, (18) Network OS Mutual Connection, (19) Internet Introduction, (20) Test Planning, (21) PC OS Introduction, (22) UNIX Introduction, (23) Project Management, (24) System Development Workshop, (25) Special Lecture, (26) Advanced Computer Technology, (27) Presentation Training, (28) Groupware Introduction.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have one to three year's experience in system development and more than three year's programming experience, (3) nominated by their government to be in charge of system development under UNIX environment, (4) under 35 years of age.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**INFORMATION PROCESSING PERSONNEL
(CLIENT-SERVER SYSTEM DESIGNER/UNIX SERVER (B))**

Oct. 8, '97 - Mar. 26, '98, 13 participants

情報処理要員養成(クライアント/サーバシステム設計者UNIXサーバ(B)) J-97-00561

- 1. PURPOSE** This course is designed to train personnel who are presently or will be engaged in design and development of Client-Server System under 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) Data Communication System Introduction, (2) LAN Design introduction, (3) WAN Design Introduction, (4) CASE Introduction, (5) Structured System Analysis, (6) Structured System Design, (7) System Performance Design, (8) Client/Server, (9) Distributed DB Introduction, (10) UNIX Database System Usage, (11) Database System Design, (12) UNIX Database Operation and Administration, (13) UNIX Shell Programming, (14) UNIX Client Application Programming, (15) UNIX Database Definition, (16) LAN System Workshop, (17) Network Operating Systems Fundamentals, (18) Network OS Mutual Connection, (19) Internet Introduction, (20) Test Planning, (21) PC OS Introduction, (22) UNIX Introduction, (23) Project Management, (24) System Development Workshop, (25) Special Lecture, (26) Advanced Computer Technology, (27) Presentation Training, (28) Groupware Introduction.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have one to three year's experience in system development and more than three year's programming experience, (3) nominated by their government to be in charge of system development under UNIX environment, (4) under 35 years of age.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**INFORMATION PROCESSING PERSONNEL
(NETWORK ENGINEER (A))**

July 10, '97 - Nov. 21, '97, 8 participants

情報処理要員養成(ネットワーク技術者(A)) J-97-00564

- 1. PURPOSE** This course is designed to train the personnel who are or will be the net work engineer in charge of designing, installing and operating network including LAN and WAN which are indispensable for information processing system, and familiar with advanced computer technology such as the internet.
- 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) Data Communication System Introduction, (2) LAN Design Introduction, (3) WAN Design Introduction, (4) Client/Server System Design, (5) Reliability Design, (6) System Response Time Calculation, (7) UNIX Networking Functions, (8) PC Networking Functions, (9) Network Operating System Fundamentals, (10) Network OS Interconnection, (11) Internet Introduction, (12) Test Planning, (13) PC OS Introduction, (14) UNIX Introduction, (15) Network Management, (16) LAN Analyzing Usage, (17) Communication Network Design Using Simulation, (18) Special Lecture, Advanced Computer Technology, etc.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, (2) have 1 to 3 year experience in system development and maintenance, (3) have less than 3 year experience or will be in charge of designing, installing, and maintaining of network, (4) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

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

May 15, '97 - Aug. 29, '97, 12 participants

情報処理要員養成(上級システム・アナリスト(A)) J-97-00562

- 1. PURPOSE** This course is designed to train personnel who are presently or will be system analysts in charge of planning, analyzing, designing and evaluating information system.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, hand-on exercise and workshops. The main themes are: (1) Business Analysis, (2) Data Communication System Introduction, (3) LAN Design Introduction, (4) WAN Design Introduction, (5) GUI Builder, (6) Application Programme Design, (7) Client / Server System Design, (8) CASE Introduction, (9) Structured System Analysis, (10) Structured System Design, (11) Database System Design, (12) Reliability Design, (13) Performance Design, (14) Test Planning, (15) Project Management, (16) System Audit, (17) CASE Study, (18) Project Management Simulation, (19) Special Lecture, (20) Advanced Computer Technology, (21) Presentation Training, (22) Group Ware Introduction.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, (2) have 3 to 7 year's experience in system development and programming, (3) person who will be in charge of system analysis, (4) under 35 years of age.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

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

Dec. 4, '97 - Mar. 29, '98, 13 participants

情報処理要員養成(上級システム・アナリスト(B)) J-97-00563

- 1. PURPOSE** This course is designed to train personnel who are presently or will be system analysts in charge of planning, analyzing, designing and evaluating information system.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, hand-on exercise and workshops. The main themes are: (1) Business Analysis, (2) Data Communication System Introduction, (3) LAN Design Introduction, (4) WAN Design Introduction, (5) GUI Builder, (6) Application Programme Design, (7) Client / Server System Design, (8) CASE Introduction, (9) Structured System Analysis, (10) Structured System Design, (11) Database System Design, (12) Reliability Design, (13) Performance Design, (14) Test Planning, (15) Project Management, (16) System Audit, (17) CASE Study, (18) Project Management Simulation, (19) Special Lecture, (20) Advanced Computer Technology, (21) Presentation Training, (22) Group Ware Introduction.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, (2) have 3 to 7 year's experience in system development and programming, (3) person who will be in charge of system analysis, (4) under 35 years of age.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**INFORMATION PROCESSING PERSONNEL
(INSTRUCTOR)**

Oct. 2, '97 - Mar. 26, '98, 12 participants

情報処理要員養成(情報処理技術インストラクター) J-97-00556

- 1. PURPOSE** This course is designed to train personnel who are or will be instructor in charge of training information processing personnel. The participants are expected to be able to design and develop system for personal computer, to instruct for information processing programme, and to plan for information processing course and develop subject materials.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. Regarding instruction techniques, participants will learn subjects such as curriculum / design on courses, subject material development and presentation through lectures and exercises. Regarding system development, participants will learn basic skills for system development such as system design, programming, and system evaluation through lectures and exercises.
- 3. QUALIFICATION OF APPLICANT** Applicants should (1) be university graduates or equivalent, (2) have one to three years experience in system development and more than one year experience in programming, (3) be person who will be an instructor, (4) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**INFORMATION PROCESSING PERSONNEL
(PC SYSTEM DESIGNER/PROGRAMMER)**

Aug. 21, '97 - Dec. 11, '97, 13 participants

情報処理要員養成(パソコン・システム開発者基礎) J-97-00566

- 1. PURPOSE** This course is designed to train the personnel who are or will be able to design and develop small scale system using personal computer.
- 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) Data Communication System Introduction, (2) LAN Design Introduction, (3) CASE Introduction, (4) Structured System Analysis, (5) Structured System Design, (6) Database System Design, (7) PC Database Usage, (8) ACCESS Usage, (9) PC Networking Functions, (10) Network Operating Systems Fundamentals, (11) Algorithmic Construction, (12) Test Planning, (13) PC-OS Introduction, (14) Project Management, (15) PC System Development Workshop, (16) Special Lecture, Advanced Computer Technology, etc.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, (2) have 0.5 to 2 year experience in programming, (3) be person who will be engaged in developing system using personal computer, (4) be under thirty years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**INFORMATION PROCESSING PERSONNEL
(NETWORK ENGINEER (B))**

Nov. 6, '97 - Mar. 26, '98, 12 participants

情報処理要員養成(ネットワーク技術者(B)) J-97-00565

- 1. PURPOSE** This course is designed to train the personnel who are or will be the net work engineer in charge of designing, installing and operating network including LAN and WAN which are indispensable for information processing system, and familiar with advanced computer technology such as the internet.
- 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) Data Communication System Introduction, (2) LAN Design Introduction, (3) WAN Design Introduction, (4) Client/Server System Design, (5) Reliability Design, (6) System Response Time Calculation, (7) UNIX Networking Functions, (8) PC Networking Functions, (9) Network Operating System Fundamentals, (10) Network OS Interconnection, (11) Internet Introduction, (12) Test Planning, (13) PC-OS Introduction, (14) UNIX Introduction, (15) Network Management, (16) LAN Analyzing Usage, (17) Communication Network Design Using Simulation, (18) Special Lecture, Advanced Computer Technology, etc.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, (2) have 1 to 3 year experience in system development and maintenance, (3) have less than 3 year experience or will be in charge of designing, installing, and maintaining of network, (4) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

ELECTRONICS ENGINEERING (MICROCOMPUTER)

Nov. 10, '97 - Feb. 18, '98, 10 participants

エレクトロニクス技術

J-97-00431

- 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) Assembly Language for Microprocessor (2) Autonomous Car (Design) with Optical Sensors and Motors, (3) C Language and HTML Language, (4) Application of Network and Multimedia
- 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

WATER SUPPLY ENGINEERING II

May 6, '97 - July 25, '97, 12 participants

上水道施設 II

J-97-00100

- 1. 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.
- 2. 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
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japan Water Works Association (JWWA)

PROMOTION OF OFFICE AUTOMATION

Aug. 4, '97 - Oct. 26, '97, 9 participants

OA化推進

J-97-00485

- 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 in the counterpart organization of the JICA's overseas offices, 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.

SEWAGE WORKS ENGINEERING II

Aug. 19, '97 - Nov. 15, '97, 13 participants

下水道技術 II

J-97-00167

- 1. 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.
- 2. 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
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with more than three years of practical experience (2) senior technical officer in charge of sewage works in central or provincial government, or in government related organization (3) under 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Sewerage and Sewage Purification Department, City Bureau, Ministry of Construction (3) Japan Sewage Works Agency
- 5. 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 20, '97 - July 25, '97, 10 participants

廃棄物処理 II

J-97-00111

- 1. 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.
- 2. 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
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Environmental Health Bureau, Ministry of Health and Welfare (3) Japan Environmental Sanitation Centre

ADMINISTRATION SYSTEM FOR MOTOR VEHICLE

Jan. 20, '98 - Mar. 1, '98, 6 participants

自動車行政制度

J-97-00323

- 1. 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 administrative system for motor vehicle in their respective countries.
- 2. MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures and observations. 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
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Road Transport Bureau, Ministry of Transport (3) Automobile Inspection & Registration Association (AIRA)

WASTE MANAGEMENT PRACTICE

Jan. 26, '98 - May 16, '98, 9 participants

廃棄物処理実習

J-97-00487

- 1. 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 participants' countries.
- 2. 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
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association
- 5. REMARKS** (1) A compulsory 25-hour Japanese language course will be conducted prior to the technical training.

MODERNIZATION OF CARGO TRANSPORT (PHYSICAL DISTRIBUTION)

Apr. 14, '97 - June 23, '97, 8 participants

物流近代化

J-97-00388

- 1. 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.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures and observation tours. The main themes are: (1) transition of physical distribution in Japan (2) administration of physical distribution (3) modernization of physical distribution (packaging, storing, handling, transport and information management) (4) related systems (driving school, vehicle registration and inspection) (5) related observations and field trips
- 3. 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
- 4. 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
- 5. 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. 16, '97 - Nov. 7, '97, 15 participants

ハイウェイセミナー II

J-97-00103

- 1. PURPOSE** The seminar is designed to improve the knowledge of personnel who are currently engaged in highway construction, design, and maintenance through the introduction of road construction technology developed in Japan.
- 2. 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
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) engineer with more than two years of experience in the field of highway construction, design, and maintenance (3) under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Road Bureau, Ministry of Construction
- 5. REMARKS** Country Reports will be highly utilized both for the selection of participants and for the Country Report presentation.

PROJECT PLANNING FOR URBAN TRANSPORT INFRASTRUCTURE

Sep. 25, '97 - Nov. 22, '97, 13 participants

都市交通プロジェクト計画

J-97-00480

- 1. 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.
- 2. 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.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or the equivalent with more than three years of occupational experience (2) under 40 years of age (3) currently engaged in planning, design or management for urban transport infrastructure
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) 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.

RAILWAY MANAGEMENT PLANNING

May 27, '97 - June 29, '97, 9 participants

鉄道経営計画

J-97-00462

- 1. 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.
- 2. 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.)
- 3. 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
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Railway Bureau, Ministry of Transport (3) Japan Railway (JR) Group (4) Japan Railway Technical Service

SEAFARER'S MANAGEMENT SYSTEM

Nov. 4, '97 - Dec. 12, '97, 10 participants

船員管理システム

J-97-00499

- 1. 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.
- 2. 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) educational system for seafarers (4) circumstances of Japanese shipping: mixed-manning system
- 3. 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
- 4. 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 23, '97 - Dec. 5, '97, 5 participants

航海技術(航海士)

J-97-00379

- 1. 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.
- 2. 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.
- 3. 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.
- 4. TRAINING INSTITUTIONS** (1) Hyogo International Center (HIC), JICA (2) Marine Technical College
- 5. 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. 21, '97 - Oct. 25, '97, 7 participants

航路標識 II

J-97-00148

- 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 or the equivalent 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)
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for about several days.

MARINE TECHNIQUE (ENGINEER)

June 23, '97 - Dec. 5, '97, 5 participants

航海技術(機関士)

J-97-00380

- 1. 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.
- 2. 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
- 3. 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.
- 4. TRAINING INSTITUTIONS** (1) Hyogo International Center (HIC), JICA (2) Marine Technical College
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for three weeks (75 hours).

MARITIME SEARCH AND RESCUE OPERATION AND MARITIME DISASTER PREVENTION

Aug. 18, '97 - Dec. 3, '97, 7 participants

救難防災

J-97-00343

- 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 23, '97 - Nov. 21, '97, 17 participants

港湾管理運営セミナー

J-97-00440

- 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) technical knowledge on port management and operation services (3) ports and harbours in participating countries
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) currently 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 5, '97 - Sep. 14, '97, 15 participants

港湾工学 II

J-97-00035

- 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 port and harbour-related 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, Ministry of Transport

DEVELOPMENT OF CONTAINER TERMINAL

Jan. 12, '98 - Mar. 8, '98, 8 participants

コンテナ埠頭整備計画

J-97-00331

- 1. PURPOSE** The purpose of this training course is to help participants understand the background of 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) over 30 but under 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. 20, '98 - Feb. 22, '98, 14 participants

航空保安セミナー

J-97-00318

- 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 graduates or the equivalent (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)