

No.

Outline of The Group Training Courses in Japan

平成3年度 集団コース コース概要

1991 Japanese Fiscal (April, 1991 to March, 1992)

**Japan International Cooperation Agency (JICA)
Tokyo, Japan**

TAD

JR

91 - 709

**Outline of
The Group Training Courses
in Japan**

平成3年度 集団コース コース概要

1991 Japanese Fiscal (April, 1991 to March, 1992)

JICA LIBRARY



1094830(5)

23142

**Japan International Cooperation Agency (JICA)
Tokyo, Japan**

国際協力事業団

23142

- CONTENTS -

DEVELOPMENT PLAN 開発計画

No. 1	Development Economics (General)	3
	開発エコノミスト(一般)	
No. 2	Development Economics (Industrial Project)	4
	開発エコノミスト(工業)	
No. 3	Seminar on Economic Development Policies	5
	経済政策セミナー	

ADMINISTRATION 行政

No. 4	Control of Narcotic Offences (Seminar) II	9
	麻薬犯罪取締セミナーⅡ	
No. 5	Crime Prevention (Treatment of Offenders) II	10
	犯罪防止(矯正保護)Ⅱ	
No. 6	Crime Prevention (Senior Seminar) II	11
	犯罪防止(上級)Ⅱ	
No. 7	Crime Prevention (The Administration of Criminal Justice) II	12
	犯罪防止(刑事司法)Ⅱ	
No. 8	Local Government II	13
	地方行政Ⅱ	
No. 9	National Government Administration II	14
	国家行政Ⅱ	
No. 10	National Government Administration Seminar (Senior Class Officials)	15
	上級国家行政セミナー	
	Traffic Police Administration Seminar	16
	交通警察行政セミナー	
No. 11	Criminal Investigation Seminar	17
	国際捜査セミナー	
No. 12	Rescue and First Aid Techniques	18
	救急救助技術	
No. 13	Fire Fighting Techniques	19
	消火技術	
No. 14	Fire Service for Administrative Officers	20
	消防行政管理者	
No. 15	Disaster Prevention Technology	21
	防災技術	
No. 16	Fire Prevention Technics	22
	火災予防技術	
No. 17	Government Auditing Seminar (Computer Auditing)	23
	政府会計セミナー(コンピュータ会計検査)	

No. 18	International Trade and Industry Policies	24
	通商産業政策	
No. 19	Taxation Seminar (General Tax Programme)	25
	一般租税セミナー	
No. 20	Taxation Seminar (Senior Tax Programme)	26
	上級税務行政	
No. 21	Customs Techniques II	27
	税関行政 II	
No. 22	The Introduction of International Cooperation Activities	28
	国際協力事業紹介セミナー	
No. 23	Environmental Administration	29
	環境行政	
No. 24	Environmental Engineering (Water Pollution Control)	30
	環境技術 (水質保全)	
No. 25	Environmental Engineering (Air Pollution Control)	31
	環境技術 (大気保全)	
No. 26	Environmental Monitoring (Water Quality)	32
	環境モニタリング (水質)	
No. 27	Nature Conservation and Natural Parks Management	33
	自然保護管理	
No. 28	Lake Water Quality Management	34
	湖沼水質保全	
No. 29	System of Environment Management on Enclosed Coastal Seas	35
	閉鎖性海域の環境管理技術	
No. 30	Marine Environment Protection	36
	海洋保全	
No. 31	Air Pollution Control	37
	大気汚染対策	
No. 32	Air Pollution Source Monitoring Practice	38
	大気汚染源モニタリング実習	
No. 33	Measures of Reduce the Use of the Ozone Depleting Substances	39
	オゾン層破壊物質削減技術	
No. 34	Environmental Radioactivity Analysis and Measurement	40
	環境放射能分析	
No. 35	Environment Impact Assessment	41
	環境アセスメント技術	
No. 36	Industrial Pollution Control Engineering	42
	産業環境対策	
No. 37	Industrial Pollution Control Research	43
	産業公害防止	
No. 38	Industrial Waste Water Treatment Technique	44
	産業廃水処理技術	
No. 39	Domestic Waste Water Treatment Technique	45
	生活排水対策	

No. 40	Practical Statistics II 一般統計実務Ⅱ	46
No. 41	Automatic Data Processing for Statisticians 統計職員のためのA D P	47
No. 42	Electronic Data Processing for Government Information Activities 行政情報システム	48
No. 43	Information Processing Personnel (Senior Programmer) 情報処理要員養成(シニアプログラマー)	49
No. 44	Information Processing Personnel (Instructor) 情報処理要員養成(インストラクター)	50
No. 45	Information Processing Personnel (Management) 情報処理要員養成(マネージメント)	51
No. 46	Information Processing Personnel (Personal Computer Programming (A)) 情報処理要員養成(パーソナルコンピュータ・プログラミング(A))	52
No. 47	Information Processing Personnel (Personal Computer Programming (B)) 情報処理要員養成(パーソナルコンピュータ・プログラミング(B))	53
No. 47	Information Processing Personnel (System Engineer (A)) 情報処理要員養成(システム・エンジニア(A))	54
No. 49	Information Processing Personnel (System Engineer (B)) 情報処理要員養成(システム・エンジニア(B))	55
No. 50	Information Processing Personnel (Database System Design (A)) 情報処理要員養成(データベース・システム設計(A))	56
No. 51	Information Processing Personnel (Database System Design (B)) 情報処理要員養成(データベース・システム設計(B))	57
No. 52	Information Processing Personnel (Online System Design (A)) 情報処理要員養成(オンライン・システム設計(A))	58
No. 53	Information Processing Personnel (Online System Design (B)) 情報処理要員養成(オンライン・システム設計(B))	59
No. 54	Information Processing Personnel (Personal Computer Network) 情報処理要員養成(パーソナル・コンピュータ・ネットワーク)	60
No. 55	Microelectronics Engineering (Microcomputer) マイクロエレクトロニクス技術	61
No. 56	Office Automation Technology O A 化技術	62

PUBLIC UTILITY WORKS 公益事業

No. 57	Water Works Engineering II 上水道施設Ⅱ	65
No. 58	Sewage Works Engineering 下水道技術	66
No. 59	Solid Waste Management and Night Soil Treatment II 廃棄物処理Ⅱ	67
No. 60	Waste Management Practice 廃棄物処理実習	68

TRANSPORTATION AND TRAFFIC 交通・運輸

No. 61	Automobile Engineering Administration	71
	自動車技術行政	
No. 62	Modernization of Physical Distribution	72
	物流近代化	
No. 63	Highway Construction Seminar II	73
	ハイウェイセミナーⅡ	
No. 64	Terminal Facility Planning and Urban Design	74
	ターミナル計画とデザイン	
No. 65	Railway Modernization for Rolling Stock Maintenance	75
	鉄道車両整備近代化	
No. 66	Railway Electrification Planning and Management	76
	鉄道電化計画・管理	
No. 67	Railway Management and Planning	77
	鉄道経営・計画	
No. 68	Railway Signal, Telecommunication and Information System Engineering	78
	鉄道情報システム	
No. 69	Seafarer's Management System	79
	船員管理システム	
No. 70	Marine Technique (Navigator)	80
	航海技術(航海士)	
No. 71-1	Marine Technique (Engineer)	81
	航海技術(機関士)	
No. 71-2	Aids to Marine Navigation	82
	航路標識	
No. 72	Marine Disaster Prevention and Rescue Operation	83
	救難防災	
No. 73	Liner Shipping Business	84
	定期船実務	
No. 74	Seminar on Port Administration and Management	85
	港湾管理運営セミナー	
No. 75	Port and Harbour Engineering II	86
	港湾工学Ⅱ	
No. 76	Development of Container Terminal	87
	コンテナ埠頭整備計画	
No. 77	Aerodrome Seminar	88
	空港セミナー	
No. 78	Aviation Security Seminar	89
	航空保安セミナー	
No. 79	Seminar on Air Traffic Control	90
	航空管制セミナー	
No. 80	Urban Transport (Seminar)	91
	都市交通セミナー	

No. 81	Comprehensive Urban Transportation Planning 総合都市交通施設計画	92
No. 82	Seismology and Earthquake Engineering II 地震工学Ⅱ	93
No. 83	Seminar on Seismology and Earthquake Engineering 地震工学セミナー	94
No. 84	Meteorology 気象学	95
No. 85	Technology for Disaster Prevention Seminar 防災技術セミナー	96
No. 86	Volcanology and Volcanic Sabo Engineering 火山学・火山砂防工学	97

INFRASTRUCTURE 社会基盤

No. 87	Bridge Engineering II 橋梁工学Ⅱ	101
No. 88	Construction Engineering (Civil Works) II 建設施工Ⅱ	102
No. 89	Construction Project Manager 建設施工管理者	103
No. 90	Soil Engineering and Foundation 土質及び基礎工学	104
No. 91	Regional Development Planning Seminar 国土開発セミナー	105
No. 92	Seminar on Administration for Disaster Prevention 防災行政管理者セミナー	106
No. 93	River and Dam Engineering 河川及びダム工学	107
No. 94	City Planning II 都市計画Ⅱ	108
No. 95	Urban Development 都市整備	109
No. 96	Housing 住宅建設	110
No. 97	Improvement of Housing and Living Environments Seminar 住宅・住環境改善セミナー	111
No. 98	Building Engineering 建築技術	112
No. 99	Advanced Technology of Construction 建設工事先進技術	113
No. 100	Surveying and Mapping (Geodetic Surveying) II 測量技術(測地学)Ⅱ	114
No. 101	Hydrographic Survey (International Accredited Category B Course) 水路測量(国際認定B級)	115

	Physical Oceanographic Survey	116
	海洋物理調査	
No. 102	Nautical Charting	117
	海図作製	

POSTAL SERVICE, TELECOMMUNICATION 通信・放送 AND BROADCASTING

No. 103	Radio Frequency Monitoring	121
	電波監視	
No. 104	Postal Executives' Seminar II	122
	郵政幹部セミナーⅡ	
No. 105	Executive's Seminar on Postal Banking Services	123
	為替貯金国際幹部セミナー	
No. 106	International Telecommunication Services (Administration and Commercial) II . . .	124
	国際通信業務管理Ⅱ	
No. 107	International Telephone Communication Engineering	125
	国際電話通信技術	
No. 108	International Data Communications Engineering	126
	国際データ通信技術	
No. 109	Data Communication Engineering	127
	データ通信技術	
No. 110	Radio Communication Engineering	128
	無線通信技術	
No. 111	Satellite Communication Engineering II	129
	衛星通信技術Ⅱ	
No. 112	Satellite Communication Engineering (Planning and Management)	130
	衛星通信技術(計画管理)	
No. 113	Optical Fiber Cable Transmission Technology	131
	光ファイバーケーブル伝送技術	
No. 114	Telecommunication Network Planning and Designing	132
	通信網計画設計	
No. 115	Telecommunication Outside Plant Engineering II	133
	通信線路技術Ⅱ	
No. 116	Telecommunication Line Man Technique	134
	通信線路技術指導者育成	
No. 117	Telecommunication Executives' Seminar II	135
	電気通信幹部セミナーⅡ	
No. 118	Digital Switching Engineering II	136
	デジタル交換基礎技術Ⅱ	
No. 119	Digital Switching Systems Engineering	137
	デジタル交換システム技術	
No. 120	Digital Transmission Systems Engineering	138
	デジタル伝送技術	

No. 121	International ISDN Engineering	139
	国際 I S D N 技術	
No. 122	Rural Telecommunication Engineering	140
	ルーラル通信技術	
No. 123	CBT Courseware Development Technology for Telecommunication	141
	電気通信 C A I 教材作成技術	
No. 124	Television Programme Production Engineering	142
	テレビ番組制作技術	
No. 125	Television Programme Production (General)	143
	テレビ番組制作(総合)	
No. 126	Television Engineering	144
	テレビ放送技術	
No. 127	Social Education Programme	145
	社会教育番組	
No. 128	Television Broadcasting Management II	146
	テレビジョン放送管理Ⅱ	
No. 129	Broadcasting Executives' Seminar II	147
	放送幹部セミナーⅡ	
No. 130	Audio Broadcasting Engineering	148
	音声放送技術	

AGRICULTURE 農 業

No. 131	Agricultural Co-operatives II	151
	農業協同組合Ⅱ	
No. 132	Agricultural Extension Service for Leader II	152
	農業普及指導者Ⅱ	
No. 133	Farm Household Development	153
	農家生活水準向上	
No. 134	Rice Production	154
	米生産	
No. 135	Production Du Riz	155
	米生産(仏語)	
No. 136	Rice Cultivation Technology	156
	稲作技術	
No. 137	Vegetable Crops Production II	157
	野菜生産Ⅱ	
No. 138	Vegetable Seed Production	158
	野菜採種	
No. 139	Sugar Cane Cultivation	159
	サトウキビ栽培	
No. 140	Pesticide Utilization for Plant Protection	160
	農薬利用	
No. 141	Control of Rice Diseases and Insect Pests	161
	稲病害虫防除	

No. 142	Plant Genetic Resources	162
	植物遺伝資源	
No. 143	Plant Quarantine (Disinfestation of Fruit Flies)	163
	植物検疫 (ミバエ類殺虫技術)	
No. 144	Soil Analysis and Improvement	164
	土壌分析改良	
No. 145	Hydroponics and Soilless Culture	165
	養液栽培	
No. 146	Effective Utilization of Tropical Agriculture and Forestry Resources	166
	熱帯農林資源の有効利用	
No. 147	Environmental Planning and Management in Agriculture and Rural Area	167
	農林・農村環境保全	
No. 148	Distribution of Fresh Fruits and Vegetables	168
	青果物流通	
No. 149	Irrigation and Drainage II	169
	灌漑排水Ⅱ	
No. 150	Agricultural Land and Water Resources Development	170
	農地水資源開発	
No. 151	Irrigation Water Management	171
	水管理	
No. 152	Water Resources Development and Its Use in Arid Areas	172
	乾燥地水資源の開発と利用	
No. 153	Farm Mechanization II	173
	農業機械化Ⅱ	
No. 154	Farm Machinery Design	174
	農業機械設計	
No. 155	Agricultural Machinery Management	175
	農業機械管理	
No. 156	Agricultural Machinery Testing and Evaluation	176
	農業機械評価試験	
No. 157	Post-Harvest Rice Processing	177
	米のポストハーベスト研修	

ANIMAL HUSBANDRY 畜 産

No. 158	Poultry Production and Breeding Technology	181
	鶏育種・生産技術	
No. 159	Breeding and Artificial Insemination in Cattle	182
	牛育種・人工授精	
No. 160	Embryo Transfer for Cattle	183
	受精卵移植技術	
No. 161	Twining and In vitro Fertilization Technology for Cattle	184
	双子生産・体外受精技術	
No. 162	Dairy Farming and Related Industries	185
	酪農振興・検査技術	

FORESTRY 林 業

No. 163	Forestry and Forest Products Research	189
	林業林産研究	
No. 164	Reforestation Techniques and Forest Management	190
	森林造成技術者	
No. 165	Forest Soils	191
	森林土壌	
No. 166	Forest Management and Planning	192
	森林管理計画	

FISHERIES 水 産

No. 167	Fishery Cooperatives	195
	漁業協同組合	
No. 168	Fishing Science and Technology	196
	漁具漁法学	
No. 169	Coastal Fishing Technology	197
	沿岸漁業技術	
No. 170	General Aquaculture	198
	養殖一般	
No. 171	Prawn Propagation Technique	199
	エビ増養殖技術	
No. 172	Marine Ranch (Marine Farm) System	200
	海洋牧場システム	
No. 173	Marine Fish Culture	201
	海面養殖	
No. 174	Fish Physiology and Prevention of Epizootics	202
	魚類生理・防疫	
No. 175	Hull and Engine Maintenance of Small Fishing Boat	203
	小型漁船の船体・機関保守	
No. 176	Fish Processing (with Marketing and Management)	204
	水産加工流通経営	
No. 177	Marine Food Processing and Technology	205
	水産食品加工	

MINING AND MINERALS 鉱 業

No. 180	Offshore Prospecting II	209
	沿海鉱物資源探査Ⅱ	
No. 178	Coal Mine Safety	210
	石炭鉱山保安	
No. 179	Mineral Processing and Metallurgy	211
	選鉱製錬	

No. 181	Mining and Metallurgy	212
	資源開発	
No. 182	Separation and Refinement of Unutilized Mineral Resources	213
	未利用資源の分離精製	

INDUSTRY 工 業

No. 183	Small Industry Development Seminar II	217
	中小工業開発セミナーⅡ	
No. 184	Implementation of Total Quality Control and Standardization Activities II	218
	T Q C ・ 標準化活動実践Ⅱ	
No. 185	Industrial Standardization and Quality Control Seminar	219
	工業標準化・品質管理シニアセミナー	
No. 186	Industrial Property System	220
	工業所有権制度	
No. 187	Seminar on Industrial Property	221
	工業所有権セミナー	
No. 188	Metrology and Measurement Standards	222
	計量標準	
No. 189	Certification Systems	223
	認証検査制度	
No. 190	Industrial Design	224
	インダストリアル・デザイン	
No. 191	Application Technology for High Temperature Refractories	225
	高温構築材応用技術	
No. 192	Ceramic Building Materials Technology	226
	セラミック建材技術	
No. 193	High Technology Materials Application	227
	ファインセラミックス応用技術	
No. 194	Petrochemical Industry	228
	石油化学工業	
No. 195	Chemical Technology	229
	化学技術研究	
No. 196	Catalytic Science	230
	触媒科学研究	
No. 197	Bioindustries	231
	バイオインダストリー	
No. 198	Organic Fine-Chemicals Technology	232
	有機ファインケミカルズ工学	
No. 199	Polymer Materials and Technology	233
	高分子材料工学	
No. 200	Advanced Glasses Technology	234
	先進ガラス材料	
No. 201	Qualified Metal Casting Technology II	235
	高品位鋳物技術Ⅱ	

No. 202	Surface Modification Technology for Materials (Metal, non-metal & new materials) II 表面改質技術(金属・非金属・新素材)II	236
No. 203	Arc Furnace and Continuous Casting Control Technology 電炉・連鋳管理技術	237
No. 204	Properties and Testing of Steel Products 鋼材の性質と試験検査	238
No. 205	Heat Treatment Technology 熱処理技術	239
No. 206	Maintenance of Construction Machinery 建設機械整備(英語)	240
No. 207	D'entretien et de Reparation de l'equipment de Construction 建設機械整備(仏語)	241
No. 208	Mecanique Automobile Vehicules Diesel (Autobus, Camions Poids-Lourd) バス・トラック整備技術(仏語)	242
No. 209	Plant Maintenance Engineering プラントメンテナンス技術	243
No. 210	Automatic Control 自動制御	244
No. 211	Machine Condition Diagnosis Technique 設備診断技術	245
No. 212	Plant Maintenance Management 保全管理	246
No. 213	Design & Production of Spare Parts for Maintenance 保有用部品の設計・製造	247
No. 214	High Technology of Metal Works 金属加工高品質化技術	248
No. 215	Process Engineering for Production Managers 生産工程管理技術	249
No. 216	Welding Technology 溶接技術	250
No. 217	Air-Conditioning Engineering 空調技術	251
No. 218	Design, Manufacturing and Maintenance of Industrial Equipment (Crane) 産業機械(クレーン)の設計・製造・保全	252
No. 219	Oil Hydraulics and Its Application 油圧とその応用	253
No. 220	Inspection and Testing Techniques for Household Electrical Appliances 電気製品検査技術	254
No. 221	Shipbuilding, Repairing and Maintenance 船舶建造メンテナンス	255
No. 222	Motorization モータリゼーション	256
No. 223	Renovation of Industrial Equipment 設備のリノベーション	257

No. 224	Textile Machinery Industries II 繊維機械工業Ⅱ	258
No. 225	Polymer and Textile Technology 繊維高分子	259
No. 226	Inspection and Testing Techniques for Textile Products 繊維製品検査技術	260
No. 227	Wood Based Materials Application Technology 木質材料高度利用技術	261
No. 228	Development and Application Technology for Pottery and Porcelain. 陶磁器開発・活用技術	262
No. 229	Packing Engineering 包装技術	263
No. 230	Advanced Industrial Technology 産業技術研究者	264

ENERGY エネルギー

No. 231	Energy Conservation 省エネルギー	267
No. 232	Energy Management エネルギー管理	268
No. 233	Hydro-Electric Power Engineering II 水力発電Ⅱ	269
No. 234	Operation and Maintenance of Coal-Fired Thermal Power Engineering. 石炭火力発電	270
No. 235	Nuclear Power Generation 原子力発電	271
No. 236	Electric Power Management 電気事業経営	272
No. 237	Electric Power Distribution Engineering 配電技術	273
No. 238	Coal Science and Technology 石炭資源開発・利用	274
No. 239	Coal Mining and Preparation 採炭・選炭技術	275
No. 240	Nuclear Technology 原子力基礎実験	276
No. 241	Seminar on Nuclear Safety and Regulation 原子力安全規制行政セミナー	277
No. 242	Geothermal Energy (Advance) 地熱エネルギーアドバンス	278
No. 243	Radiological Protection for Radiation Safety Officer 放射線安全管理実務者	279

COMMERCE AND TRADE 商業貿易

No. 244	Measures for Smaller Industries II 中小企業対策Ⅱ	283
No. 245	Consultancy Service for Small Industries 中小企業診断	284
No. 246	Production Management (Theory & Practice on Work Improvement) 生産性向上技術	285
No. 247	Productivity Management 実践的総合生産性向上	286
No. 248	Seminar on Shipbuilding Management 造船経営管理セミナー	287
No. 249	Investment Promotion Seminar (1) (Asia) 投資促進セミナー(1)(アジア諸国)	288
No. 250	Investment Promotion Seminar (2) (Latin America) II 投資促進セミナー(2)(ラテンアメリカ諸国)Ⅱ	289
No. 251	Trade Promotion Seminar (1) (Asia & Pacific) 貿易振興セミナー(1)(アジア・太平洋諸国)	290
No. 252	Trade Promotion Seminar (2) (Africa, Middle-East & Carrib) II 貿易振興セミナー(2)(アフリカ・中近東・カリブ諸国)Ⅱ	291
No. 253	Foreign Trade Practice for Leaders 貿易実践指導者	292
No. 254	Intellectual Property Rights in Technology Transfers 国際知的財産権	293

TOURISM 観 光

No. 255	Comprehensive Tourism Seminar II 総合観光セミナーⅡ	297
---------	---	-----

HUMAN RESOURCES 人的資源

No. 256	Intensive Japanese Language (A) 日本語専修(A)	301
No. 257	Intensive Japanese Language (B) 日本語専修(B)	302
No. 258	Sound Slide Production サウンドスライド制作	303
No. 259	Video Production (Basic) ビデオ制作	304
No. 260	Audio Visual Technology 視聴覚技術	305
No. 261	Training Specialist for Supervisors (Seminar) II 監督者訓練専門家セミナーⅡ	306

No. 262	Training Management in Vocational Training Institutions (Seminar)	307
	職業訓練管理セミナー	
No. 263	Human Resources Development Administration (Seminar)	308
	職業能力開発行政セミナー	
No. 264	High Technology Research	309
	ハイテク・リサーチ	
No. 265-1	Vocational Training Instructors (Electrical Engineering) II	310
	職業訓練指導員(電気工学)Ⅱ	
No. 265-2	Vocational Training Instructors (Architectural Engineering)	311
	職業訓練指導員(建築工学)	
No. 265-3	Vocational Training Instructors (Electronic Engineering) II	312
	職業訓練指導員(電子工学)Ⅱ	
No. 265-4	Vocational Training Instructors (Mechanical Engineering for Industry)	313
	職業訓練指導員(産業機械工学)	
No. 265-5	Vocational Training Instructors (Mechanical Engineering for Production)	314
	職業訓練指導員(生産機械工学)	
No. 265-6	Vocational Training Instructors (Industrial Design Engineering)	315
	職業訓練指導員(造形工学)	

SCIENCE AND CULTURE 科学・文化

No. 266	Remote Sensing Technology (Fundamental)	319
	リモート・センシング技術(基礎)	
No. 267	Enzyme Technology	320
	酵素工学	
No. 268	Medical and Biological Application of Radiation and Radioisotopes	321
	アイソトープ・放射線の医学・生物学利用	
No. 269	Biotechnology Utilizing Higher Plants and Microorganism	322
	植物及び微生物を利用するバイオテクノロジー	
No. 270	Practice of Science Education	323
	科学教育実技研修	

MEDICAL TREATMENT 保健医療

No. 271	Tuberculosis Control II	327
	結核対策Ⅱ	
No. 272	Tuberculosis Control for Administrative Medical Officers	328
	結核対策指導者	
No. 273	Laboratory Works for Tuberculosis Control	329
	結核対策細菌技術	
No. 274	Clinical Oncology II	330
	がん対策Ⅱ	
No. 275	Early Gastric Cancer Detection and Related Digestive Tumor II	331
	早期胃ガン診断Ⅱ	

No. 276	Blood Transmitted Diseases (Spatial Reference to AIDS, ATL & Hepatitis)	332
	血液由来感染症	
No. 277	Clinical Training for Patients Care of Infectious Diseases	333
	感染症患者臨床研修	
No. 278	Management of Reagents & Culture Media in Diagnosis of Infectious Diseases	334
	感染症の試薬及び培地の確保と管理	
No. 279	Advanced Microbial Diseases Study	335
	上級微生物病研究	
No. 280	Pediatrics and Pediatric Surgery	336
	小児専門医療	
No. 281	Seminar on Polio Eradication, Its Theory and Practice	337
	小児麻痺根絶計画の理論と実際	
No. 282	Technology for Neonatal and Infantile Screening	338
	新生児・乳児マス・スクリーニング検査技術	
No. 283	Clinical Dentistry	339
	歯科技術	
No. 284	Medical Radiological Technology	340
	医療放射線技術	
No. 285	Medical Technology	341
	医療技術	
No. 286	Hospital Administration	342
	病院管理技術	
No. 287	Food Microbial Control	343
	食品微生物検査技術	
No. 288	Import and Export Food Inspection	344
	輸出入食品検査技術	
No. 289	Mycotoxin Inspection in Food	345
	輸出入食品マイコトキシン検査	
No. 290	Seminar on Parasite Control Administration for Senior Officers	346
	寄生虫予防指導者セミナー	
	Nursing Administration	347
	看護管理	
No. 291	Specialized Nursing	348
	専門看護	
No. 292	Clinical Nursing	349
	臨床看護実務	
No. 293	Cardiovascular Diseases	350
	循環器病対策	
No. 294	National Health Administration Seminar	351
	衛生行政セミナー	
No. 295	Public Health Technologists	352
	公衆衛生技術者	
No. 296	Seminar on Human Resources Development in Public Health	353
	公衆衛生教育	

No. 297	Occupational Health	354
	産業医学	
No. 298	Research for Tropical Medicine	355
	熱帯医学研究	
No. 299	Biological Products Technology	356
	生物製剤技術	
No. 300	Maintenance Engineering for Medical Equipment	357
	医療機器保守管理技術	
No. 301	Seminar on Emergency/Disaster Medicine	358
	救急・大災害医療セミナー	
No. 302	Seminar on Evaluation of Drug Efficacy	359
	医薬品の効果判定セミナー	
No. 303	Community Health Services	360
	地域保健指導者	
No. 304	Seminar on the Control of Health Hazards in the Moderning	361
	Process of Agriculture and Rural Area	
No. 305	農村近代化過程の健康障害対策セミナー	
	Seminar on Family Planning Administration for Senior Officers II	362
	家族計画指導者セミナーⅡ	
	Community-Based Family Planning Strategy (Seminar)	363
	家族計画組織活動セミナー	

WELFARE 社会福祉

No. 306	Mental Retardation	367
	精神薄弱福祉	
No. 307	Prosthetic and Orthotic Technicians	368
	補装具製作技術	
No. 308	Rehabilitation of Physically Disabled Persons	369
	障害者リハビリテーション指導者(専門家コース)	
No. 309	Leadership of Physically Disabled Persons	370
	障害者リハビリテーション指導者(身体障害者コース)	
No. 310	Sports Instructor of Physically Disabled Persons	371
	身障者スポーツ指導者	
No. 311	Seminar on Women's Affairs for Public Administration Officers II	372
	婦人関係行政セミナーⅡ	
No. 312	Seminar on Women's Issues in National Machineries	373
	婦人問題ナショナルマシーナリーセミナー	
No. 313	Industrial Safety and Health (Seminar)	374
	労働安全衛生行政セミナー	
No. 314	Labour-Management Relations Administration (Seminar)	375
	労使関係行政セミナー	
No. 315	Labour Statistics for Policy Planning (Seminar)	376
	労働統計・政策セミナー	
No. 316	Employment Administration (Seminar)	377
	雇用行政セミナー	

DEVELOPMENT PLAN

No. 1

DEVELOPMENT ECONOMICS (GENERAL) 開発エコノミスト(一般)

1. PERIOD

September 17, 1991 to March 17, 1992 (6 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent in economics
- 2) Well qualified in their respective fields
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - a) Development Economics
 - Introduction to Project Planning
 - Theories and Methods of Project Planning
 - Project Formulation and Identification
 - Project Appraisal and Workshops
 - b) Macro Development Planning
 - General Thesis of Development Planning
 - Regional Development Planning
 - National Development Planning
 - c) Japanese Economic Development
 - d) Statistical Analysis and National Accounts
 - e) Seminar and Special Lectures
- 2) Observation tours
- 3) Report making

5. FACILITIES AND INSTITUTIONS

The International Development Center of Japan (IDCJ)

6. REMARKS

No. 2

DEVELOPMENT ECONOMICS (INDUSTRIAL PROJECT)

開発エコノミスト(工業)

1. PERIOD

June 10, 1991 to August 23, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Minimum 3 year's work experience in the field
- 2) Between 30 and 40 years of age
- 3) University degree and academic background in economics, finance or engineering
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Economic Development, Industrialization and Japanese Experiences
- 2) Financial Analysis
- 3) Economic Analysis and Social Economic Analysis
- 4) Field Trip/Study Visit
- 5) Report making and Presentation

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) The International Development Centre of Japan (IDCJ)

6. REMARKS

1. PERIOD

September 24, 1991 to November 17, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

- 1) be central government planners engaged in economic development planning and have at least five years' occupational experience in this field
- 2) be those who have an academic background in economics or those having a proper experience and knowledge on economic policy and planning
- 3) be between thirty and forty years of age
- 4) have sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Presentation of and Discussion on Country Report
- 2) Lectures on Japan's Economic Development and Economic Cooperation Policy
 - Japan's Economic Development
 - Economic Planning in Postwar Japan
 - Trade and Development
 - Linkage between Agricultural and Industrial Development
 - Infrastructure and Economic Development
 - Role of Government for Economic Development
 - Industrial Policy of Japan
 - Technology Development of Japan
 - Human Resource Development in Japan
 - Financial Development
 - Social Aspect of Economic Development
 - Industrial Development in Japan (light industry, heavy industry, machine industry)
 - Japan's Economic Cooperation Policy
- 3) Field trip
- 4) Report Writing, Presentation, and Revision

5. FACILITIES AND INSTITUTIONS

The International Development Center of Japan (IDCJ)

6. REMARKS

ADMINISTRATION

No. 4

CONTROL OF NARCOTIC OFFENCES SEMINAR II 麻薬犯罪取締セミナーⅡ

1. PERIOD

October 14, 1991 to October 31, 1991 (18 days)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eighteen (18)

3. QUALIFICATIONS

- 1) Officers in the rank of the Director of Division in charge of Drug Law Enforcement at the central government.
- 2) Have experience of more than three years in drug law enforcement
- 3) Have a identification technics
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - The current trends and situation in drug offences and their counter measures in Japan
- 2) Comparative study
 - Major drug problems facing each society
 - Current situation of drug abuse in each country
 - Laws and regulations (confiscation of proceeds etc.)
 - Investigative methods/techniques
 - Deportation procedure
- 3) Discussion and problem solving
 - Major drug problems in each region
 - Ways to improve international investigative cooperation
- 4) Observation tours

5. FACILITIES AND INSTITUTIONS

National Police Agency

6. REMARKS

No. 5

CRIME PREVENTION (TREATMENT OF OFFENDERS) II 犯罪防止（矯正保護）II

1. PERIOD

April 8, 1991 to July 8, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Persons who hold relatively senior positions in a central bureau, department or field agency concerned with the correctional treatment of offenders, and, who have at least eight-year practical experience in their field or five-year practical experience, plus a university degree or its equivalent.
- 2) Have a sufficient command of spoken and written English
- 3) Under fifty (50) years of age
- 4) In good health, both physically and mentally, to undergo the course. Pregnancy is regarded as a disqualifying condition for participation in the course

4. DESCRIPTION OF TRAINING

- 1) Comparative Study on the Treatment of Offenders
- 2) Workshops on Topics Selected by the Participants
- 3) Lectures and Discussion
 - alternative to pre-trial detention such as release on bail or on recognizance and pre-trial diversion such as suspension of prosecution,
 - non-custodial sanctions in sentencing, such as suspended sentence, probation, community service order, compensation or restitution order etc., and
 - alternatives to imprisonment at post-sentencing stage such as parole, remission, work release, furlough, etc.
- 4) Visit to Relevant Institutions and Agencies

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFED)

6. REMARKS

CRIME PREVENTION (SENIOR SEMINOR) II 犯罪防止（上級）II

1. PERIOD

January 20, 1992 to March 2, 1992 (1.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

Applicants are to:

- 1) Be high-ranking criminal justice administrators at the policy-making level whose duties are closely related to the main theme of the seminar, and should be ranked at director level or above in the division of the Ministry of Justice, Ministry of Interior or the Supreme Court
- 2) Have a good command of spoken and written English
- 3) Be between thirty-five and fifty-five years of age and likely to continue to work in this field for a minimum period of two years
- 4) Be in good health, both physically and mentally, to undergo the course. Pregnancy is regarded as a disqualifying condition for participation in the seminar

4. DESCRIPTION OF TRAINING

- 1) Orientation for the seminar
- 2) Visiting Experts' Lectures
- 3) Faculty's Lectures
- 4) Ad Hoc Lectures
- 5) Individual Presentation on the main theme of the seminar
- 6) General Discussion and Report Back Sessions
- 7) Observation Visits
- 8) Kansai Trip (Visit to some institutions)
- 9) Reference Reading
- 10) Evaluation Session
- 11) Individual Interview

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Center, JICA
- 2) United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

6. REMARKS

CRIME PREVENTION (THE ADMINISTRATION OF CRIMINAL JUSTICE) II

犯罪防止（刑事司法）II

1. PERIOD

September 9, 1991 to December 9, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) be persons who hold relatively senior positions in a central bureau department or field agency concerned with investigation, prosecution, trial or prevention of transnational crimes or correctional treatment of offenders of such crimes, and who have at least eight years of practical experience in their field or five years of practical experience plus a university degree or its equivalent
- 2) Have a sufficient command of spoken and written English
- 3) Be under fifty (50) years of age
- 4) Be in good health, both physically and mentally, to undergo the course. Pregnancy is regarded as a disqualifying condition for participation in the course

4. DESCRIPTION OF TRAINING

- 1) Comparative Study on the Criminal Justice Administration
- 2) Group Workshops on the Topics Selected by the Participants
- 3) Lectures and discussion
 - Present situation regarding drug abuse and drug-related offences;
 - Factors causing and affecting drug abuse and drug-related offences;
 - Efficacy and appropriateness of existing practices of criminal justice systems in dealing with the drug problem and drug-related criminality;
 - The development of new schemes and measures to facilitate the investigation and prosecution of drug-related criminality, including promotion of international co-operation;
 - Appropriate sentencing policies with regard to drug abuse and drug trafficking;
 - Review and examination of strategies and programmes for the treatment of drug abusers, and for the prevention of drug abuse;
 - Possible ways and procedures to develop more effective and appropriate measures to deal with the drug problem.
- 4) Visit to Relevant Institutions and Agencies

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Center, JICA
- 2) United Nations Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

6. REMARKS

1. PERIOD

May 8, 1991 to July 18, 1991 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be university or college graduates (or equivalent) with occupational experience of more than seven years in the civil service relating to local public administration,
- 2) be civil service personnel holding responsible government positions (managerial or supervisory) and be promising candidates for the post of top management in the local government or that of senior management in the central government in the future,
- 3) have a sufficient command of spoken and written English,
- 4) be between thirty and forty years old, and

4. DESCRIPTION OF TRAINING

- 1) Lectures
Purpose: To understand the local government system and its function in Japan.
 - Local Public Administration
 - Local Public Finance
 - Regional Development
- 2) Seminars
 - Local government system in the participating countries
 - Local public personal system in the participating countries
 - Role of local government in regional development
- 3) Discussion with Japanese trainees at Local Autonomy College
- 4) Field Study in Local Governments
Purpose: To study intensively the actual activities and the functions of local governments through the field training in typical local government.
- 5) Observation trips

5. FACILITIES AND INSTITUTIONS

- 1) Local Autonomy College, Ministry of Home Affairs
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

NATIONAL GOVERNMENT ADMINISTRATION II 国家行政 II

1. PERIOD

May 14, 1991 to June 28, 1991 (6 weeks)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10).

3. QUALIFICATIONS

- 1) be a government officer promising to be a senior member of the staff in the national government offices, and be related with policy, formation;
- 2) have university degree or equivalent, with occupational experience of more than five years in public administration (at least two years of experience in the government);
- 3) have a good command of spoken and written English;
- 4) be not less than thirty (30), and not more than forty (40) years of age; and
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.

4. DESCRIPTION OF TRAINING

Part I. Modernization Process (10 units)

- 1) Aims
The purpose is intended to provide participants with fundamental knowledge of the meaning and process of modernization.
- 2) Methods
 - The Japanese process of modernization
 - Observation of Japanese modernization period

Part II. Fundamental Policies for Modernization (28 units)

- 1) Aims
The purpose is to focus on fundamental policies for modernization referring to the Japanese experience and to provide a clear idea of the role of public administration and the way to efficient implementation.
- 2) Methods
 - Case Study
Following "Bird's-eye view" which provides a global assessment of the case, the participants will observe the facilities of this case.
The cases of this year will come from following subjects:
"Education" "Communication"
"Fostering Private Sector" "Hardware Infrastructure"
 - Study on Fundamental Policies from Administrative Point of View
Lecture & discussion on "Organization Management"
"Financial Management"
"Human Resource Management"
"Role of Administration"
 - Study tours
Observation of governmental and public facilities relating to aforementioned subjects.

Part III. Modernization of Public Administration in the Participating Countries (12 units)

- 1) Aims
The purpose is intended to provide the opportunity to exchange views among participants with the aim of developing efficiency and effectiveness in public administration in the participating countries through discussion on various countries' experience.
- 2) Methods
 - Keynote address by lecturer
 - Group discussion on some specific fields referring to the report submitted by participants
Group discussion on following topics:
 - Modernization of Education System
 - Fostering Private Sector (—for the sake of securing employment—)
 - Improvement of Human Resource Management in the Public Sector
 - Report writing

5. FACILITIES AND INSTITUTIONS

National Personnel Authority

6. REMARKS

NATIONAL GOVERNMENT ADMINISTRATION SEMINAR (SENIOR CLASS OFFICIALS)

上級国家行政セミナー

1. PERIOD

October 8, 1991 to November 9, 1991 (4 weeks)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be ranked senior class officials (at least directors of division and who is participant in policy formation) in the national government offices;
- 2) have university degree or equivalents, with occupational experience of more than ten years (at least two years of experience in the government);
- 3) have a good command of spoken and written English;
- 4) be not less than thirty-five (35), and not more than forty-five (45) years of age; and
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the training.

4. DESCRIPTION

Part I. Modernization of Government Administration (22 units)

1) Aims

The purpose is intended to study on fundamental policies for economic and social development referring to the Japanese experience and to grasp the way of adequate policy formation and its efficient implementation and to provide clear idea of the role of public administration and the way to its improvement.

2) Methods

- Case Study

Following "Bird's eyes view" which give global situation of the case, the participants will observe the facilities of this case.

The cases of this year will come from "Public Facilities" and to "Research & Development"

- Policy Formation

Lecture & discussion on "Intervention by the Government for Development"

Lecture & discussion on "Industrial Policy"

Lecture & discussion on "Research & Development"

Lecture & discussion on "Role of Administration for Development"

- Individual Study

Participants may arrange his visit to governmental office, institution by himself.

Part II. Economic and Social Development in the Participating Countries (18 units)

1) Aims

The purpose is intended to provide the opportunity for exchange view among participants in order to develop the efficiency and to make effectiveness on public administration in participating countries through discussion on various country's experience.

2) Methods

- Economic Development

Lecture & discussion on "Economic Development for Developing Countries"

- Group discussion on some specific fields referring to the report submitted by participants

Presentation by each participants (within 20 minutes per one subject)

Group discussion on following fields:

- Industrial Policy for development

- Intervention by the Government for development

5. FACILITIES AND INSTITUTIONS

National Personnel Authority

6. REMARKS

TRAFFIC POLICE ADMINISTRATION SEMINAR

交通警察行政セミナー

1. PERIOD

Not conducted in 1991

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

3. QUALIFICATIONS

- 1) be a director or a chief police superintendent who supervises or is dealing with traffic police affairs in the central police organization
- 2) be university graduates or their equivalent
- 3) have a sufficient command of spoken and written English
- 4) be in good health, both physically and mentally

4. DESCRIPTION OF TRAINING

- 1) General Subjects (Lecture) (3 sessions)
 - Japanese Police System
 - Role of Traffic Police
 - Application of computers by the Police
- 2) Specialized Subjects (Lecture) (14 sessions)
 - Traffic Planning Division related Subjects
 - Traffic Law Enforcement related Subjects
 - Traffic Control Division related Subjects
 - Expressway Administration Division related Subjects
 - Driver's Licence Division related Subjects
 - Other related Subjects
- 3) Technical Visit (11 sessions)
 - Activities of traffic police officers on streets
 - Traffic control & surveillance center and command room
 - Driver's licence examination center and safe driving school and others
- 4) Observation Tour

5. FACILITIES AND INSTITUTIONS

Traffic Planning Division, Traffic Bureau, National Police Agency (NPA)

6. REMARKS

The course will be conducted in 1992.
(The course is conducted every other year.)

1. PERIOD

May 7, 1991 to June 1, 1991 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be a commanding police officer (superintendent, major, or higher) in charge of criminal investigation in the central police organization,
- 2) have a sufficient command of spoken and written English.

4. DESCRIPTION OF TRAINING

- 1) Lecture (13 sessions)
 - Police system in Japan
 - Outline of criminal police
 - Outline of international criminal investigation
 - Criminal identification system
 - Safety police activities
 - Status of offense committed by members of organized crime groups and measures taken against such offenders
 - Fingerprint identification
 - Investigation of drug offences
- 2) Technical Visit (14 sessions)
 - visit to Metropolitan Police Department (MPD)
 - visit to Identification Material Center (NPA)
 - visit to site of criminal identification
 - visit to *Criminal Investigation Laboratory*
 - visit to Dog Training Center
 - visit to private company
- 3) Discussion (6 sessions)
- 4) Study Trip (3 days)
Local district.

5. FACILITIES AND INSTITUTIONS

National Police Agency

6. REMARKS

RESCUE AND FIRST AID TECHNIQUES 救急救助技術

1. PERIOD

August 26, 1991 to November 27, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Leader in the field of rescue service
- 3) Under 30 years
- 4) Good working knowledge of English
- 5) Not serving as a military personnel

4. DESCRIPTION OF TRAINING

- 1) Basic theory
 - Fire service system in Japan
 - Present situation of disaster and fire service activities
 - Policy to prevent hazardous materials disaster
 - Policy to prevent earthquake disaster
 - Standard on the fire service strength and educational training
 - Rescue service
- 2) Outline of rescue service
 - Rescue service activity
 - Theory of rescue instruction
 - Safety administration
 - Ambulance service
 - Rescue operation and rescue tools
- 3) Rescue practice
 - Basic activity
 - Entry skill
 - Rescue skill
 - Rescue command skill
 - Searching skill
 - Usage of rescue tools
 - First aid skill
 - Fire prevention skill
- 4) Quartering study
- 5) Observation visit
- 6) Study trip

5. FACILITIES AND INSTITUTIONS

- 1) Fire Defense College and Fire Defense Laboratory
- 2) Tokyo Metropolitan Fire Department
- 3) Fire Defense Agency, Ministry of Home Affairs

6. REMARKS

No. 13

FIRE FIGHTING TECHNIQUES 消火技術

1. PERIOD

July 8, 1991 to October 26, 1991 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) be university graduates or equivalent to its occupational experience
- 2) be presently engaged in fire service and expected to play key roles in this field
- 3) be able to extend their techniques systematically after returning to their countries
- 4) have a good command of English both spoken and written
- 5) be in good health, both physically and mentally to undergo the training. Pregnancy is regarded as a disqualifying condition for participation in the course
- 6) not be serving as a military personnel presently

4. DESCRIPTION OF TRAINING

- 1) Lecture
Basic theory
 - Fire service system in Japan, and the present situation
 - Fire pumps
 - Hydraulic science
 - Introduction to safety control (at the time of training and fire fighting)
 - Introduction to fire fighting
 - Building fire fighting techniques
 - Vehicles fire fighting techniques
 - Ships fire fighting techniques
 - Airplanes fire fighting techniques
 - Fireground commanding technique
- 2) Fire-fighting Practice
- 3) Quartering Study
- 4) Comprehensive Practice
- 5) Observation Visit
- 6) Study Trip
- 7) Others

5. FACILITIES AND INSTITUTIONS

- 1) Fire Defense Agency, Ministry of Home Affairs
- 2) Kitakyushu City Fire Department

6. REMARKS

No. 14

FIRE SERVICE FOR ADMINISTRATIVE OFFICERS 消防行政管理者

1. PERIOD

May 21, 1991 to July 13, 1991 (1.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduate or equivalent with occupational experience
- 2) Under 40 years
- 3) Good working knowledge of English
- 4) Administrative officer or candidate for administrative officer, who are presently engaged in planning/drafting of Fire Service System

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - a) Measures for Strengthen Administrative Functions
 - Effective Administrative System in Fire Service
 - Optimum Standard for Fire Equipment and Personnel
 - Effective Communication & Cooperation among Fire Authorities
 - b) Measures for Strengthen Fire Service Techniques
 - Improvement of Capabilities of Fire Personnel
 - Development and Improvement of Fire Protection Equipment
 - c) Measures for Dissemination of Fire Protection Awareness
 - Fire Education for School Children and Citizens
 - Current Status of Fire Insurance
 - d) Measures Promotion of fire Prevention
 - Consent to & Control over Facilities and Its Management
 - Control of Hazardous Materials
 - e) Measures for Strengthen Volunteer Fire Protection Activities
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Fire Defense College and Fire Defense Laboratory
- 2) Tokyo Fire Department
- 3) Fire Defense Agency, Ministry of Home Affairs

6. REMARKS

1. PERIOD

October 1, 1991 to November 27, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) be university graduates or equivalent with occupational experience,
- 2) be administrative officer or candidate for it, who are presently engaged in planning/drafting of Disaster Preventional System, or in administrative section for Disaster Preventional implementation,
- 3) have a sufficient command of spoken and written English,
- 4) be not more than 40 years age in principle,
- 5) be in good health, both physically and mentally to undergo the course of training. Pregnancy is regarded as a disqualifying condition for the participation in the course,
- 6) be able to extend their techniques systematically after returning to their countries.

4. DESCRIPTION OF TRAINING

- 1) Objectives
To transfer the disaster prevention technology and to set up optimum disaster prevention system in each country
- 2) Outline
 - Disaster prevention systems (include laws)
 - Role of fire defence in disaster prevention
 - Disaster prevention technics
 - Counterplan system in disaster prevention
 - Role of inhabitants
 - Others

5. FACILITIES AND INSTITUTIONS

Japan Fire Defence Agency

6. REMARKS

1. PERIOD

October 1, 1991 to November 27, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) be university graduates or equivalent with occupational experience,
- 2) be administrative officer or candidate for it, who are presently engaged in planning/drafting of Fire Service System, or in administrative section for Fire Service implementation,
- 3) have a sufficient command of spoken and written English,
- 4) be not more than 40 years age in principle,
- 5) be in good health, both physically and mentally to undergo the course of training. Pregnancy is regarded as a disqualifying condition for the participation in the course,
- 6) be able to extend their techniques systematically after returning to their countries.

4. DESCRIPTION OF TRAINING

- 1) Objectives
To transfer the fire prevention techniques and thus to prevent disasters in each country in advance, to decrease the damage.
- 2) Outline
 - The system of Fire Service and Preventing disasters in Japan
 - The system to prevent fires in advance
 - The system to prevent natural disasters

5. FACILITIES AND INSTITUTIONS

- 1) Nagoya City Fire Department
- 2) Fire Stations in Nagoya City

6. REMARKS

No. 17

GOVERNMENT AUDITING SEMINAR (COMPUTER AUDITING)

政府会計検査セミナー（コンピュータ会計検査）

1. PERIOD

July 1, 1991 to August 7, 1991 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Senior officials of the Supreme Audit Institution with Computer Auditing Experience
- 2) Not more than 45 years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lecture and Discussion
 - Financial and Accounting System of the Government
 - Government Auditing System and the Board of Audit
 - EDP System in Japanese Government and Public Organization
 - Computer System of the Board of Audit
 - Audit Practice by Computer
- 2) Observation Tour

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Board of Audit

6. REMARKS

1. PERIOD

January 13, 1992 to March 8, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Currently in charge of industrial policy or international trade policy
- 2) University or college graduates
- 3) Occupational experience of more than 5 years
- 4) Under 35 years of age
- 5) Good working knowledge of English
- 6) Physically and mentally fit to attend a training course

4. DESCRIPTION OF TRAINING

- 1) General lectures
Japan's Economic Development, Transition of Japan's Industrial Structure, Transition of Japan's International Trade Policy, System of Japan's Administration, Japan's Labor Relations, International Comparisons of Scientific and Technological Policies, etc.
- 2) Study visits
Industrial Estate, Automobile Factory, Home Electric Appliance Factory, Small and Medium-sized Enterprise
- 3) Specific program on MITI's activities
Interlinked lectures and visits covering various activities of MITI will be arranged. Most of the lectures will be given by the staff of MITI and visits to local government, research institutes and other organizations interlinked with the lectures will be included during 4 weeks.

5. FACILITIES AND INSTITUTIONS

- 1) International Development Center of Japan (IDCJ)
- 2) Tokyo International Centre, JICA

6. REMARKS

Those who could be leader in the field of the industrial policy or international trade policy in the future should be selected.

No. 19

TAXATION SEMINAR (GENERAL TAX PROGRAMME) 一般租税セミナー

1. PERIOD

August 29, 1991 to December 8, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) Be engaged in tax administration with more than 5 years of occupational experience
- 2) University graduates or the equivalent academic background
- 3) Not more than 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lecture and Discussion
 - Japanese Economy, Public Finance, Tax Policy and Tax Law
 - Tax administration in Japan
- 2) Observation
 - Actual operation of tax administration
- 3) Country Report Presentation
- 4) Report Making

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) National Tax Administration

6. REMARKS

TAXATION SEMINAR (SENIOR TAX PROGRAMME)

上級稅務行政

1. PERIOD

September 16, 1991 to October 12, 1991 (4 weeks)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be ranked as senior-class officials of a competent government department who are in charge of tax administration (except customs),
- 2) be familiar with the following subject:
 - the present situation and problems of organization of audit investigation function, and
 - personnel management for the improvement of tax auditors' competence.

4. DESCRIPTION OF TRAINING

- 1) Japanese Economy, Tax System and Tax Administration in Japan
Purpose: to get an outline knowledge of Japanese economy, public finance, tax system and tax administration through lectures given by eminent Japanese scholars and high government officials
- 2) Round Table Discussion
Purpose: to exchange information and views in the field of taxation through the presentations of country reports and round table discussions on them
- 3) Observation
Purpose: to observe the administration and functions of the regional taxation bureau, etc. as well as cultural background of Japan

5. FACILITIES AND INSTITUTIONS

National Tax Administration

6. REMARKS

1. PERIOD

September 2, 1991 to October 31, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and Discussions
 - Organizations and functions of customs administration in Japan
 - Customs and tariff policy
 - Export and import clearance
 - Customs valuation
 - Other related lectures
 - Comparative study on related items
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Customs and Tariff Bureau, Ministry of Finance
- 2) Tokyo, Yokohama, Kobe, Osaka and Nagoya Custom House

6. REMARKS

No. 22

THE INTRODUCTION OF INTERNATIONAL COOPERATION ACTIVITIES

国際協力事業紹介セミナー

1. PERIOD

September 23, 1991 to October 11, 1991 (19 days)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) Be officials in the rank of Director of Division in charge of International Cooperation Programme at the Central Government,
- 2) Have a sufficient command of spoken and written English, and
- 3) Be healthy enough to undergo the course of seminar. Pregnancy is regarded as a disqualifying condition for participation in the seminar.

4. DESCRIPTION OF TRAINING

- 1) Explanation of International Technical Cooperation (JICA)
 - Organization of JICA and mechanism of JICA's technical cooperation
 - Grant aid programme
 - Development survey programme
 - Expert disptch programme
 - Training programme for overseas participants
 - Project-type technical cooperation programme
 - Japan Overseas Cooperation Volunteers Programme (JOCV)
- 2) Visit to the Ministry of Foreign Affairs
- 3) Observation of Major Training Facilities
- 4) Observation Trip (Typical industries etc.)
- 5) Exchange of the opinions concerning the International Technical Cooperation
- 6) Explanation of Overseas Economic Cooperation Fund (OECF)

5. FACILITIES AND INSTITUTIONS

Japan International Cooperation Agency

6. REMARKS

- 1) Refrain from the participation on the way to this course.
- 2) Be requested to take part in with questions or the International Cooperation Activities.

1. PERIOD

October 7, 1991 to November 30, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be presently engaged directly in policy-drafting in environmental administration in the governmental or related public organization with experience of at least five (5) years,
- 2) be university graduates or possess the equivalent academic background in this field,
- 3) be preferably under forty-five (45) years of age

4. DESCRIPTION OF TRAINING

1) Lectures and discussions

Introduction

- Development of environmental administration
- Outline of pollution control administration
- Outline of nature conservation administration

Japanese Environmental Policies by Types of Pollution Problems

- Air pollution
- Traffic pollution
- Noise, vibration
- Offensive odor
- Water pollution
- Waste management
- Environmental impact assessment system
- Environmental Information
- Environmental Education
- Pollution-related Health Hazards Compensation System
- Environmental research & development
- Activities of Japan Environment Public Corporation
- Environmental administration and role of NGOs

Environmental Administration at Local Level

- Air pollution
- Water pollution
- Waste management

Problem Solving Methodology

JICA's Activities in the Field of Pollution Control

2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) International Affairs Division, Environment Agency
- 2) Japan Environmental Sanitation Center (JESC)
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 24

ENVIRONMENTAL ENGINEERING (WATER POLLUTION CONTROL)

環境技術 (水質保全)

1. PERIOD

September 9, 1991 to November 1, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Technical officials presently in charge of water pollution control including domestic and industrial waste water management in central or local governments
- 2) Three years or more experience in their respective fields
- 3) University graduates or equivalent
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Planning and implementation of water pollution control
 - Technologies of water management
 - Effects of water pollution on water use and its countermeasures
 - Institutional development
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Water Quality Bureau, Environment Agency
- 2) Japan Society on Water Pollution Research
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 25

ENVIRONMENTAL ENGINEERING (AIR POLLUTION CONTROL) 環境技術 (大気保全)

1. PERIOD

January 30, 1992 to March 19, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Technical officials directly responsible for air pollution control administration with more than 3 years of experience.
- 2) University graduates or equivalent with technical qualifications in this field
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lecture and Practice
 - Environmental pollution issues in Japan
 - Air pollution control administration
 - Planning and countermeasures
 - Measurement and assessment
- 2) Country report presentation
- 3) Field observation

5. FACILITIES AND INSTITUTIONS

- 1) Hachioji International Training Centre, JICA
- 2) Environment Agency
- 3) Japan Environmental Sanitation Centre (JESC)

6. REMARKS

No. 26

ENVIRONMENTAL MONITORING (WATER QUALITY) 環境モニタリング(水質)

1. PERIOD

September 24, 1991 to November 16, 1991 (1.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Graduates of college or university majoring in chemistry, chemical engineering, hygiene engineering, environmental engineering, environmental science
- 2) Experienced for more than three (3) years in the field of water pollution control at the national or local government.
- 3) Under 35 years and above 25 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Contents
 - Introduction to water quality monitoring
 - Water quality monitoring planning
 - Water quality analytical measurement techniques
 - Utilization of analytical data on water quality
- 2) Methodology
 - Lecture
 - Discussion
 - Practice (demonstration and laboratory exercise)
 - Field trips

5. FACILITIES AND INSTITUTIONS

National Environmental Training Institute (NETI), Environment Agency, Japan

6. REMARKS

1. PERIOD

September 24, 1991 to October 24, 1991 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Technical officials presently in charge of nature conservation and/or management administration in central or local governments with five (5) or more years of experience in this field,
- 2) University graduates or possess equivalent technical qualifications in this field,
- 3) Sufficient command of spoken and written English,
- 4) Not more than 45 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Basic concepts of nature conservation and natural parks management.
 - Framework of Japanese nature conservation.
- 2) Practice
 - Accumulation and processing of data on natural environment.
 - Preparation and presentation of a plan of contribution for nature conservation and management in their respective countries.
- 3) Field Study
 - Research work of nature to obtain scientific knowledge and to employ techniques.
 - Management of nature to learn the basic principles of the administration of natural parts and zoological gardens and to employ techniques for coral protection.

5. FACILITIES AND INSTITUTIONS

- 1) Nature Conservation Bureau, Environment Agency
- 2) Japan Wildlife Research Center

6. REMARKS

1. PERIOD

January 9, 1992 to March 30, 1992 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Technical administrators who are in charge of water quality measurement laboratory (occupational experience of at least 5 years), and who are expected to assume a post of executive administration in the field of water quality control/management in the future
- 2) University graduates having majored in analytical chemistry or microbiology, or the equivalent
- 3) Under 35 years of age
- 4) Good working knowledge of English
- 5) Good health, both physically and mentally, to undergo the course of the training

4. DESCRIPTION OF TRAINING

- 1) Lectures and Practices
 - Fundamental concept of lake management
 - Monitoring of lake water quality
 - Practice of analysis of lake water
 - Maintenance of analytical instruments
 - How to effectively use data on water quality
 - Simulation of water quality
 - Laws concerning lakes
 - Policies and measures concerning lake water management
- 2) Observations and study tours
 - Lakes, research institutes, private companies (manufacturers of analytical instruments of water)

5. FACILITIES AND INSTITUTIONS

- 1) International Lake Environment Committee Foundation (ILEC)
- 2) Shiga Prefectural Government

6. REMARKS

No. 29 SYSTEM OF ENVIRONMENT MANAGEMENT ON ENCLOSED COASTAL SEAS
閉鎖性海域の環境管理技術

1. PERIOD

September 24, 1991 to December 6, 1991 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) be leading officers who are presently engaged in environment management on enclosed coastal seas,
- 2) be university graduates and/or those who have equivalent practical experience of not less than three (3) years in the field of environment on enclosed coastal seas,
- 3) have a sufficient command of spoken and written English,
- 4) be not less than twenty-six (26), and not more than forty (40) years of age

4. DESCRIPTION OF TRAINING

1) Lecture

- a) Administrative topics
 - Environmental administration in Japan, Legislations on environmental pollution, Environmental quality standards
- b) General technical topics
 - Outline of environmental pollution, Outline of water pollution, Outline of waste treatment
- c) Mechanism of pollution
 - Mechanism of occurrence, influx, diffusion, sedimentation, decomposition, resynthesis of pollutants, Abnormal proliferation of plankton, Influence of pollution to human body and ecological system
- d) Treatment of waste water
 - Treatment planning, Treatment techniques
- e) Measurement of water pollution
 - Standards methods for measurement, Measurement instruments, Monitoring system, Data analysis
- f) Environmental management
 - Ideas and methods of environment management planning, practical methods environmental assessment

2) Laboratory exercise
Environment management, Waste water treatment, Measurement

3) Observation tour

5. FACILITIES AND INSTITUTIONS

- 1) Environmental Conservation Association of Seto Inland Sea
- 2) Hyogo International Centre (HIC), JICA
- 3) The Environmental Science Institute of Hyogo Prefecture

6. REMARKS

MARINE ENVIRONMENT PROTECTION 海洋保全

1. PERIOD

August 22, 1991 to November 17, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent, or have the occupational experience of more than five (5) years in the field of marine pollution prevention,
- 2) Presently engaged in the above-mentioned field,
- 3) Under forty (40) years of age,
- 4) Sufficient command of both spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Outline on Environmental Pollution
- 2) Outline and Services of Maritime Safety Agency
- 3) Laws on the Prevention of Marine Pollution
- 4) Current situation of Marine Pollution in Japan
- 5) Violation of Laws on Marine Pollution
- 6) Analysis of Noxious Substances
- 7) Control of Spilled Oil
- 8) Discrimination and Identification of Oil
- 9) Prevention of Marine Disasters
- 10) Off-shore Training
- 11) Air Training
- 12) Field Training
- 13) Oil Sample Analysis
- 14) Special Lecture
- 15) Presentation and Discussion on the Situation of Participants' Country
- 16) Observation Tour
- 17) Intensive Japanese Language

5. FACILITIES AND INSTITUTIONS

- 1) Maritime Safety Agency Headquarters
- 2) The 11th Regional Headquarters of Maritime Safety Agency
- 3) Okinawa International Centre (OIC), JICA

6. REMARKS

AIR POLLUTION CONTROL 大気汚染対策

1. PERIOD

July 11, 1991 to November 3, 1991 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Technical administrators engaged in air pollution control measures in the central or local government, with at least 3 years of experience in the related field.
- 3) Between twenty-five (25) and thirty-five (35) years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lecture
 - Legislation concerning air pollution
 - Preventive measures
 - Measuring techniques
 - Estimation techniques
 - Environmental control techniques
- 2) Practice
 - Practices of preventive measures, measuring techniques, etc., in experimental plants and working plants
- 3) Observation
 - Treatment facilities
 - Wind-tunnel experimental facilities
 - Environmental control systems

5. FACILITIES AND INSTITUTIONS

- 1) Osaka International House Foundation
- 2) Osaka City Institute of Public Health and Environmental Sciences

6. REMARKS

AIR POLLUTION SOURCE MONITORING PRACTICE

大気汚染源モニタリング実習

1. PERIOD

September 2, 1991 to December 21, 1991 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

Applicants should:

- 1) be university graduates or have equivalent academic background.
- 2) be technical engineers/administrators who have three years or more experience on air pollution monitoring practice and/or equivalent technical knowledge.
- 3) have a sufficient command of spoken and written English.*
- 4) be not more than 40 years of age, and
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition.

* For an example, it is desirable to hold TOEFL (Test of English as a Foreign Language) score more than 500 points.

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic theory on combustion engineering
 - Administrative framework on air pollution control in Japan and Kitakyushu City
 - Practical training on ambient air quality monitoring
 - Practical training on exhaust gas analysis
 - Biological monitoring for air pollution
 - Practical training on air pollution source monitoring
 - Outline of environmental improvement and simulated operation training in coal-fired thermal power station
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Association
- 2) Kitakyushu City Government
- 3) Kyushu Institute of Technology
- 4) Kitakyushu University
- 5) Other related industries

6. REMARKS

No. 33

MEASURES TO REDUCE THE USE OF THE OZONE DEPLETING SUBSTANCES

オゾン層破壊物質削減技術

1. PERIOD

October 17, 1991 to November 17, 1991 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Government officers in charge of industry or environment related to CFCs or other ozone depleting substances
- 3) Between 30 and 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Brief introduction on issues on protection of the Ozone Layer
 - State of Ozone Observations and Research
 - Outline of the Vienna Convention and the Montreal Protocol
 - Policy measures for the Protection of the Ozone Layer in Japan
 - Substitutes and Alternatives for Controlled Substances
 - Technologies to reduce consumption of ozone depleting substances
- 2) Observation tour

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of International Trade and Industry (MITI)
- 2) Japan Industrial Conference for Ozone Layer Protection (JICOP)

6. REMARKS

No. 34

ENVIRONMENTAL RADIOACTIVITY ANALYSIS AND MEASUREMENT

環境放射能分析

1. PERIOD

September 17, 1991 to October 27, 1991 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Be college graduates or university graduates who have majored in science or technology, or those who have equivalent technical knowledge
- 2) Be working or going to work in organizations concerned with environmental radioactivity analysis and measurement
- 3) Have a sufficient command of spoken and written English, this item will be checked strictly
- 4) Be in good health, both physically and mentally, to undergo the course of training. Pregnancy is regarded as a disqualifying condition for the participation in the course

4. DESCRIPTION OF TRAINING

- 1) Basic Subjects: Environmental Radioactivity Analysis and Measurement.
- 2) Sampling and Pretreatment: Sampling and Pretreatment of Precipitation, Water, Fish, Vegetable, etc.
- 3) Analysis and Measurement for Tritium, Radioactive Strontium, Uranium and Plutonium in Environmental Samples.
- 4) Gamma Ray Spectrometry: Gamma Ray Spectrometry with Germanium Semiconductor Detector.
- 5) Gamma Ray Dose Measurement: Gamma Ray Dose Measurement with Thermoluminescence Dosimeter Systems.

5. FACILITIES AND INSTITUTIONS

Japan Chemical Analysis Center (JCAC)

6. REMARKS

No. 35

ENVIRONMENT IMPACT ASSESSMENT 環境アセスメント技術

1. PERIOD

January 13, 1992 to February 7, 1992 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be technical officials presently in charge of environmental assessment in central or local government
- 2) be University graduates or equivalent with technical qualifications in the field
- 3) good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lecture and practical training
 - Development and Environment
 - Assessment technology
 - Assessment information
 - Japan's case study
- 2) Country report presentation

5. FACILITIES AND INSTITUTIONS

Japan Public Health Association (JPHA)

6. REMARKS

1. PERIOD

May 20, 1991 to September 23, 1991 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) be university graduates (faculty of Engineering) or have the equivalent academic background
- 2) have 3 years' or more occupational experience in the field of environmental control administration or pollution control in the government
- 3) be not more than 40 years old
- 4) have a sufficient command of spoken and written English*

* For an example, it is desirable to hold TOEFL (Test of English as a Foreign Language) score more than 500 points

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Introduction (the History of Industrial Pollution Preventive Measures in Japan)
 - Health Effects of Environmental Pollutants
 - Environmental Engineering
 - Environmental Administration
 - Environmental pollutants Measuring Method
 - International Cooperation in the field of Environment
 - Environmental Pollution Control Measures taken by Industries
 - Making of Action Plan
 - Computer literacy
 - Measures for improving working environments
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Training Association
- 2) Kyushu International Centre, JICA
- 3) Kitakyushu Municipal Government
- 4) Kyushu Institute of Technology
- 5) The University of Occupational and Environmental Health, Japan
- 6) Nippon Steel Corporation, Yawata Works
- 7) Mitsubishi Kasei Corporation, Kurosaki Plant
- 8) Mitsubishi Materials Corporation, Kurosaki Plant
- 9) Kyushu Electric Power Co., Inc.

6. REMARKS

No. 37

INDUSTRIAL POLLUTION CONTROL RESEARCH 産業公害防止

1. PERIOD

November 18, 1991 to March 16, 1992 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) Technical officials
- 2) University graduates
- 3) Three years experience in their respective fields
- 4) Under 40 years of age
- 5) Good working knowledge of English or Japanese

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Measuring techniques of air quality
 - Measuring techniques of water quality
 - Air pollution prevention technology at source and automobile
 - Atmospheric Chemistry
 - Biological treatment of waste water
 - Pysico-chemical treatment of waste water
 - Assessment technology for air and water pollution
- 2) Field excursion
 - to related institute, municipals and companies

5. FACILITIES AND INSTITUTIONS

- 1) National Research Institute for Pollution and Resources, Ministry of International Trade and Industry (MITI)
- 2) Industrial Pollution Control Association Japan
- 3) Tsukuba International Centre, JICA

6. REMARKS

1. PERIOD

August 12, 1991 to December 21, 1991 (4.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) be university graduates or equivalent in the fields of chemical engineering, mechanical engineering, electrical engineering or civil engineering
- 2) have 3 years' or more experience on actual management of industrial wastewater treatment
- 3) be presently engaged in engineering services on wastewater treatment of various manufacturers
- 4) be not more than 40 years of old
- 5) have a sufficient command of spoken and written English*

* For an example, it is desirable to hold TOEFL (Test of English as a Foreign Language) score more than 500 points.

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of water pollution control law
 - Outline of wastewater treatment
 - Wastewater analysis technique
 - Wastewater investigation & treatment test
 - Planning, design & execution of wastewater treatment facilities
 - Operation, inspection & maintenance of treatment facilities
 - Computer literacy
 - Automatic control technique
 - Computer Aided Design
 - Field study in Enterprise
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Training Association
- 2) Kyushu International Centre, JICA
- 3) Kyushu Institute of Technology (KIT)
- 4) Kitakyushu Municipal Government
- 5) Kankyo Engineering Co., Ltd. (Kitakyushu Branch Office)
- 6) Nippon Steel Corporation, Yawata Works

6. REMARKS

1. PERIOD

September 2, 1991 to December 19, 1991 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

Applicants should:

- 1) be university graduates or have equivalent academic background
- 2) be technical engineers/administrators who have three years or more experience on domestic waste-water treatment practice and/or equivalent technical knowledge.
- 3) have a sufficient command of spoken and written English*
- 4) be not more than 40 years of age
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition.

* For an example, it is desirable to hold TOEFL (Test of English as a Foreign Language) score more than 500 points.

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic theory on water quality conservation
 - Basic theory on Local Administration
 - Administrative framework on water pollution control in Japan and Kitakyushu City
 - Practical training on water quality analysis
 - Technical training on night-soil treatment
 - Technical training on sewage/drainage treatment
 - Technical training on septic tank management
 - Practical training on waste disposal
 - Practical training on river/water-way management in urban area
 - Practical training on water supply
- 2) Observation tours
 - Factories manufacturing water quality monitoring apparatus in Kyoto
 - Lake Biwa Research Institute in Otsu
 - National Institute for Environmental Studies in Tsukuba
 - UNITED Nations Centre for Regional Development in Nagoya

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Association
- 2) Kitakyushu City Government
- 3) Kyushu Institute of Technology
- 4) The University of Occupational and Environmental Health, Japan
- 5) Kitakyushu University

6. REMARKS

1. PERIOD

September 19, 1991 to March 23, 1992 (6 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirty-three (33)

3. QUALIFICATIONS

- 1) University graduates specialized in statistics, economics or sociology or those who have the equivalent knowledge and experience
- 2) be over twenty-five (25) but under thirty-five (35) years of age
- 3) have a sufficient command of spoken and written English
- 4) have a sufficient knowledge of basic mathematics

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Statistical methods
 - Sampling methods
 - Statistical operations, Computing
 - National accounting statistics
 - Demographic and social statistics
 - Economic statistics
 - Food and agricultural statistics
- 2) Observation of field operations of statistical surveys

5. FACILITIES AND INSTITUTIONS

- 1) Statistical Institute for Asia and the Pacific (SIAP)
- 2) Management and Coordination Agency
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

This course is organized mainly for ESCAP countries.

No. 41

AUTOMATIC DATA PROCESSING FOR STATISTICIANS 統計職員のための A D P

1. PERIOD

May 14, 1991 to July 22, 1991 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) University graduates or have the equivalent knowledge and experience
- 2) Upper and middle level statisticians of statistical officers whose present or intended work includes responsibility for statistical censuses, surveys or other statistical activities and the use of computers in fulfilling their responsibilities
- 3) Under 35 years of age
- 4) Having a sufficient command of spoken and written English
- 5) Being as fully informed as possible about their countries' statistical systems and related data processing facilities

4. DESCRIPTION OF TRAINING

- 1) Systems analysis and equipment selection
- 2) Electronic data processing and PL/I programming language
- 3) Large-file statistical data processing
- 4) Computer methods in statistical analysis
- 5) Statistical operations
- 6) Computer laboratory

5. FACILITIES AND INSTITUTIONS

- 1) Statistical Institute for Asia and the Pacific
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

This course is organized for ESCAP countries.

No. 42

ELECTRONIC DATA PROCESSING FOR GOVERNMENT
INFORMATION ACTIVITIES 行政情報システム

1. PERIOD

January 13, 1992 to March 11, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Officials who belong to
 - i) a government body responsible for overall management and coordination of GIS, being engaged in relevant works
 - ii) a government body planned to be responsible or considered to be suitable for the task mentioned above.
- 2) Knowledge and skills in data processing by computer, preferably with experiences of developing and/or managing computer systems
- 3) University graduates or have equivalent educational backgrounds
- 4) Good working knowledge of English
- 5) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Outline of Public Administration and Government Information System
- 2) Methodology of Management and Coordination of GIS
- 3) Computerization of Statistics
- 4) Technology of Database
- 5) Technology of Communication Network
- 6) Office Automation
- 7) Software Development
- 8) Application of Computer
- 9) New Technologies of Hardware and Software
- 10) Presentation of Country Report
- 11) Individual or Small Group Study

5. FACILITIES AND INSTITUTIONS

Office of Government Information Systems Planning Division, Administrative Management Bureau,
Management and Coordination Agency

6. REMARKS

No. 43

INFORMATION PROCESSING PERSONNEL 情報処理要員養成
(SENIOR PROGRAMMER) (シニア・プログラマー)

1. PERIOD

May 16, 1991 to September 21, 1991 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14)

3. QUALIFICATIONS

- 1) University graduates or have the equivalent knowledge in the field.
- 2) have one (1) to five (5) years experience in system development and maintenance, and have more than three (3) years programming experience in at least one of programming languages as COBOL, FORTRAN, PL/I, and so forth,
- 3) Being able to make a programme in COBOL,
- 4) have experience in system design by using conventional files,
- 5) Not exceeding thirty-five (35) years of age, and
- 6) Having sufficient command of both spoken and written English

4. DESCRIPTION OF TRAINING

- | | |
|--|--|
| 1) Hardware Introduction | 12) Online Application System Design |
| 2) OS (Operating System) Introduction | 13) Data Communication Network Introduction |
| 3) Module Design | 14) System Development Outline |
| 4) Test Planning | 15) System Development Workshop |
| 5) Programme Structure Design | 16) Special Lecture |
| 6) Online Database System Introduction | 17) Introduction to Personal Computer |
| 7) Database Programming | 18) CASE (Computer Assisted Software Engineering) Introduction |
| 8) TSS (Time Sharing System) Usage | 19) Advanced Computer Technology |
| 9) JCL (Job Control Language) Usage | 20) Observation Tour |
| 10) Database Design | |
| 11) Online Programming | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 44

INFORMATION PROCESSING PERSONNEL 情報処理要員養成
(INSTRUCTOR) (インストラクター)

1. PERIOD

September 26, 1991 to March 15, 1992 (6 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) University graduates with more than one (1) year experience in system development and maintenance or, be person with more than three (3) years experience in the field
- 2) Having more than three (3) years experience in programming in any one of programming languages: such as COBOL, FORTRAN, PL/1, etc., and being able to make a programme in COBOL
- 3) Person who will be a instructor of programmers
- 4) Not exceeding thirty-five (35) years of age
- 5) Having sufficient command of both spoken and written English

4. DESCRIPTION OF TRAINING

- | | |
|--|----------------------------------|
| 1) Hardware Introduction | 13) Test Planning |
| 2) OS (Operating System) Introduction | 14) System Development Workshop |
| 3) Data Communication Network Introduction | 15) Instructor Training I |
| 4) Module Design | 16) Instructor Training II |
| 5) System Development Outline | 17) Instructor Training III |
| 6) Personal Computer Introduction | 18) Instructor Training IV |
| 7) Online Database System Introduction | 19) Special Lecture |
| 8) Database Programming | 20) CASE Introduction |
| 9) TSS (Time Sharing System) Usage | 21) Advanced Computer Technology |
| 10) JCL (Job Control Language) Usage | 22) Observation Tour |
| 11) Database Design | |
| 12) Online Programming | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 45

INFORMATION PROCESSING PERSONNEL 情報処理要員養成
(MANAGEMENT) (マネージメント)

1. PERIOD

August 29, 1991 to October 25, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14)

3. QUALIFICATIONS

- 1) University graduates with more than one (1) year experience in system development and maintenance or, have the equivalent background
- 2) Presently engaged in management and have less than one (1) year experience of data processing division management
- 3) Not exceeding forty-five (45) years of age
- 4) Having sufficient command of both spoken and written English

4. DESCRIPTION OF TRAINING

- 1) DP System Planning
- 2) Case Study
- 3) Project Management Game
- 4) DP Division Management
- 5) System Audit
- 6) Special Lecture
- 7) DSS (Decision Support System)
- 8) Word Processing
- 9) Observation Tour

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 46

INFORMATION PROCESSING PERSONNEL 情報処理要員養成
(PERSONAL COMPUTER PROGRAMMING (A)) (パーソナルコンピュータ・プログラミング(A))

1. PERIOD

April 4, 1991 to July 27, 1991 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates, or be person who has the equivalent knowledge in the field
- 2) Having a half year to two (2) years programming experience which includes programming in software packages, such as database, spreadsheet, and so forth
- 3) Not be over thirty (30) years of age
- 4) Having sufficient command of both spoken and written English

4. DESCRIPTION OF TRAINING

- | | |
|--------------------------------------|----------------------------------|
| 1) Personal Computer Introduction | 8) System Development Workshop |
| 2) Wordprocessing (WORDPERFECT) | 9) Special Lecture |
| 3) Spreadsheet (Lotus 1-2-3) | 10) Case Study |
| 4) Database (dBASEIII ⁺) | 11) Advanced Computer Technology |
| 5) BASIC Programming | 12) OSI and LAN Technology |
| 6) Test Planning Introduction | 13) Observation Tour |
| 7) System Design | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 47

INFORMATION PROCESSING PERSONNEL
(PERSONAL COMPUTER PROGRAMMING (B))

情報処理要員養成

(パーソナルコンピュータ・プログラミング(B))

1. PERIOD

July 25, 1991 to November 17, 1991 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) University graduates, or be person who has the equivalent knowledge in the field
- 2) Having a half year to two (2) years programming experience which includes programming in software packages, such as database, spreadsheet, and so forth
- 3) Not be over thirty (30) years of age
- 4) Having sufficient command of both spoken and written English

4. DESCRIPTION OF TRAINING

- | | |
|--------------------------------------|----------------------------------|
| 1) Personal Computer Introduction | 8) System Development Workshop |
| 2) Wordprocessing (WORDPERFECT) | 9) Special Lecture |
| 3) Spreadsheet (Lotus 1-2-3) | 10) Case Study |
| 4) Database (dBASEIII ⁺) | 11) Advanced Computer Technology |
| 5) BASIC Programming | 12) OSI and LAN Technology |
| 6) Test Planning Introduction | 13) Observation Tour |
| 7) System Design | |

5. FACILITIES AND INSTITUTIONS

Oknawa International Centre (OIC), JICA

6. REMARKS

No. 48

INFORMATION PROCESSING PERSONNEL
(SYSTEM ENGINEER (A))

情報処理要員養成
(システム・エンジニア(A))

1. PERIOD

May 9, 1991 to August 23, 1991 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates with more than three (3) years experience in system development or, have the equivalent background
- 2) Having three (3) to seven (7) years' experience in system development and programming experience in at least one of programming languages such as COBOL, FORTRAN, PL/I and so forth, etc., and being able to make a programme in COBOL
- 3) Be a person who will be in charge of system analysis, system design or system evaluation
- 4) Not exceeding thirty-five (35) years of age
- 5) Having sufficient command of both spoken and written English

4. DESCRIPTION OF TRAINING

- | | |
|--|--|
| 1) System Development Outline | 11) Project Management Simulation |
| 2) System Analysis | 12) System Audit |
| 3) Application Program Design | 13) Special Lecture |
| 4) Program Structure Design | 14) Case Study |
| 5) Test Planning | 15) CASE (Computer Assisted Software Engineering) Introduction |
| 6) Database Design | 16) Advanced Computer Technology |
| 7) Data Communication Network Design | 17) Observation Tour |
| 8) Reliable System Design | |
| 9) System Estimation/Evaluation | |
| 10) System Performance Design Simulation | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 49

INFORMATION PROCESSING PERSONNEL 情報処理要員養成
(SYSTEM ENGINEER (B)) (システム・エンジニア(B))

1. PERIOD

October 31, 1991 to February 23, 1992 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates with more than three (3) years experience in system development or, have the equivalent background
- 2) Having three (3) to seven (7) years' experience in system development and programming experience in at least one of programming languages such as COBOL, FORTRAN, PL/I and so forth, etc., and being able to make a programme in COBOL
- 3) Be a person who will be in charge of system analysis, system design or system evaluation
- 4) Not exceeding thirty-five (35) years of age
- 5) Having sufficient command of both spoken and written English

4. DESCRIPTION OF TRAINING

- | | |
|--|--|
| 1) System Development Outline | 11) Project Management Simulation |
| 2) System Analysis | 12) System Audit |
| 3) Application Programme Design | 13) Special Lecture |
| 4) Programme Structure Design | 14) Case Study |
| 5) Test Planning | 15) CASE (Computer Assisted Software Engineering) Introduction |
| 6) Database Design | 16) Advanced Computer Technology |
| 7) Data Communication Network Design | 17) Observation Tour |
| 8) Reliable System Design | |
| 9) System Estimation/Evaluation | |
| 10) System Performance Design Simulation | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 50

INFORMATION PROCESSING PERSONNEL 情報処理要員養成
(DATABASE SYSTEM DESIGN (A)) (データベース・システム設計(A))

1. PERIOD

April 4, 1991 to September 7, 1991 (5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates, or be person who has the equivalent knowledge in the field,
- 2) Having one (1) to five (5) years experience in system development and maintenance, and having more than three (3) years programming experience in at least one of programming languages such as COBOL, FORTRAN, PL/I, and so forth,
- 3) Being able to make a programme in COBOL,
- 4) Having experience in system design by using conventional files,
- 5) Not be over thirty-five (35) years of age, and
- 6) Having sufficient command of both spoken and written English to take classes in English.

4. DESCRIPTION OF TRAINING

- | | |
|--|--|
| 1) File System Design | 12) Recovery Design |
| 2) Module Design | 13) Test Planning |
| 3) Online Database System Introduction | 14) Project Management |
| 4) TSS (Time Sharing System) Usage | 15) System Development Workshop |
| 5) JCL (Job Control Language) Usage | 16) Special Lecture |
| 6) Programme Structure Design | 17) Case Study |
| 7) Database Programming (NDB, RDB) | 18) Introduction to Personal Computer |
| 8) Database Design (NDB, RDB) | 19) Computer Assisted Software Engineering |
| 9) Database Creation | 20) Advanced Computer Technology |
| 10) Online Programming | 21) Observation Tour |
| 11) Online Application System Design | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 51

INFORMATION PROCESSING PERSONNEL 情報処理要員養成
(DATABASE SYSTEM DESIGN (B)) (データベース・システム設計(B))

1. PERIOD

September 26, 1991 to March 8, 1992 (5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) University graduates, or be person who has the equivalent knowledge in the field,
- 2) Having one (1) to five (5) years experience in system development and maintenance, and having more than three (3) years programming experience in at least one of programming languages such as COBOL, FORTRAN, PL/1, and so forth,
- 3) Being able to make a programme in COBOL,
- 4) Having experience in system design by using conventional files,
- 5) Not be over thirty-five (35) years of age, and
- 6) Having sufficient command of both spoken and written English to take classes in English.

4. DESCRIPTION OF TRAINING

- | | |
|--|--|
| 1) File System Design | 12) Recovery Design |
| 2) Module Design | 13) Test Planning |
| 3) Online Database System Introduction | 14) Project Management |
| 4) TSS (Time Sharing System) Usage | 15) System Development Workshop |
| 5) JCL (Job Control Language) Usage | 16) Special Lecture |
| 6) Programme Structure Design | 17) Case Study |
| 7) Database Programming (NDB, RDB) | 18) Introduction to Personal Computer |
| 8) Database Design (NDB, RDB) | 19) Computer Assisted Software Engineering |
| 9) Database Creation | 20) Advanced Computer Technology |
| 10) Online Programming | 21) Observation Tour |
| 11) Online Application System Design | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 52

INFORMATION PROCESSING PERSONNEL 情報処理要員養成
(ONLINE SYSTEM DESIGN (A)) (オンライン・システム設計(A))

1. PERIOD

May 9, 1991 to October 12, 1991 (5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduate with more than one (1) year experience in system development and maintenance or, be person with more than three (3) years experience in system development
- 2) Having more than three (3) years experience in programming in any one of programming languages: such as COBOL, FORTRAN, PL/I, etc., and being able to make a programme in COBOL
- 3) Having experience in system design in batch processing system
- 4) Not exceeding thirty-five (35) years of age
- 5) Having sufficient command of both spoken and written English

4. DESCRIPTION OF TRAINING

- | | |
|--|--|
| 1) Module Design | 13) Reliable System Design |
| 2) Programme Structure Design | 14) Data Communication Network Design |
| 3) Online Database System Introduction | 15) System Configuration Design Workshop |
| 4) Database Programming | 16) Project Management |
| 5) TSS (Time Sharing System) Usage | 17) System Development Workshop |
| 6) JCL (Job Control Language) Usage | 18) Special Lecture |
| 7) Database Design | 19) Introduction to Personal Computer |
| 8) Online Programming | 20) Case Study |
| 9) Test Planning | 21) CASE (Computer Assisted Software Engineering) Introduction |
| 10) Online Application System Design | 22) Advanced Computer Technology |
| 11) System Definition | 23) Observation Tour |
| 12) System Estimation/Evaluation | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 53

INFORMATION PROCESSING PERSONNEL 情報処理要員養成
(ONLINE SYSTEM DESIGN (B)) (オンライン・システム設計(B))

1. PERIOD

October 17, 1991 to March 30, 1992 (5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) University graduates, or be person who has the equivalent knowledge in the field,
- 2) Having one (1) to five (5) years experience in system development and maintenance, and having more than three (3) years programming experience in at least one of programming languages such as COBOL, FORTRAN, PL/1, and so forth,
- 3) Being able to make a programme in COBOL,
- 4) Having experience in system design in batch processing system,
- 5) Not be over thirty-five (35) years of age, and
- 6) Having sufficient command of both spoken and written English to take classes in English.

4. DESCRIPTION OF TRAINING

- | | |
|--|--|
| 1) Module Design | 13) Reliable System Design |
| 2) Programme Structure Design | 14) Data Communication Network Design |
| 3) Online Database System Introduction | 15) System Configuration Design Workshop |
| 4) Database Programming | 16) Project Management |
| 5) TSS (Time Sharing System) Usage | 17) System Development Workshop |
| 6) JCL (Job Control Language) Usage | 18) Special Lecture |
| 7) Database Design | 19) Case Study |
| 8) Online Programming | 20) Introduction to Personal Computer |
| 9) Online Application System Design | 21) Computer Assisted Software Engineering |
| 10) Online System Definition | 22) Advanced Computer Technology |
| 11) Test Planning | 23) Observation Tour |
| 12) System Estimation/Evaluation | |

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 54

INFORMATION PROCESSING PERSONNEL 情報処理要員養成
(PERSONAL COMPUTER NETWORK) (パーソナル・コンピュータ・ネットワーク)

1. PERIOD

November 21, 1991 to March 30, 1992 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) be university graduates or have the equivalent knowledge in the field,
- 2) have one (1) to five (5) years experience in system development and maintenance, and have more than three (3) years programming experience in at least one of programming languages such as BASIC, COBOL, FORTRAN, etc.
- 3) be not exceeding thirty-five (35) years of age
- 4) have sufficient command of both spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Personal computer introduction
- 2) Wordprocessing
- 3) Spreadsheet
- 4) Database
- 5) Language C
- 6) PC LAN System Design
- 7) Micro-Mainframe Connection Design
- 8) Test Planning
- 9) UNIX System Usage
- 10) PC Network System Design
- 11) System Development Workshop
- 12) CASE
- 13) Special Lecture
- 14) Observation Tour

5. FACILITIES AND INSTITUTIONS

Okinawa International Centre (OIC), JICA

6. REMARKS

No. 55

MICROELECTRONICS ENGINEERING (MICROCOMPUTER)

マイクロエレクトロニクス技術

1. PERIOD

November 28, 1991 to March 9, 1992 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

Applicants should:

- 1) be design or development engineers who have experienced more than 3 years of developing and designing software or hardware for personal computer or microprocessor.
- 2) be under 35 years of age.
- 3) be university or college graduate who has majored in electricity, electronics and information processing, and have studied within the past 10 years.
- 4) be able to operate DOS (Disc Operating System) and Text Editor of personal computers.
- 5) have experience in developing programs by using C-language or assembly language.
- 6) have experienced in designing and developing digital circuits or print circuited board.
- 7) have a sufficient command both of spoken and written English.
 - i) be able to understand fully lectures, practices and experiments, and take part in discussions.
 - ii) have enough ability to express fully yourself in writing, and understand high-level materials.
- 8) be in good health, both physically and mentally, to pursue the study. Pregnancy is regarded as disqualified.

4. DESCRIPTION OF TRAINING

- 1) Lectures:
 - Microcomputer I (Application for 8 bit microcomputer)
 - Microcomputer II (High-end microprocessor)
 - Interface techniques
 - Data structure and software techniques
 - Assembly language and C-language
- 2) Exercises and Experiments
 - Assembling microcomputers
 - Operating microcomputers and debugging
 - Practical technologies of interfaces
 - Controlling peripherals
 - C-language
 - Operations of host computers
 - Computer networks
 - Logic simulation
 - Designing PLD
- 3) Practical training will be put into practice for one or two weeks in the related agencies and institutions
- 4) Observations

5. FACILITIES AND INSTITUTIONS

City of Sapporo, Sapporo Electronics Center

6. REMARKS

1. PERIOD

August 22, 1991 to November 18, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates from department of engineering or the equivalent, and majored in information engineering, system engineering or electronics,
- 2) Those who have experience of at least 3 years in the related field, and are presently engaged in office automation operation,
- 3) Under 30 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Information intensive society and business management
 - Business administration and office automation (Introduction and propagation of automatically controlled office work)
 - Theory of office automation
 - Designing office automation by computers
 - Practical training of system design
 - Integrated office automation and information technology
 - Concept of integrated OA, On-line network, Data-base management
 - Integrated office automation and human interface
 - System approach to support intellectual creativity
 - Development of consumer-oriented system
 - System approach and utilization of 4th generation language
 - System supervision and security
 - Human resources development for office automation
 - Development of future office automation (DSS, SIS, EIS)
- 2) Observations and study tours
 - OA in design, OA in manufacture, OA in distribution
 - Case study will include observation of examples of office automation in various fields

5. FACILITIES AND INSTITUTIONS

Kansai Institute of Information Systems

6. REMARKS

PUBLIC UTILITY WORKS

WATER WORKS ENGINEERING II 上水道施設 II

1. PERIOD

May 13, 1991 to August 9, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Between 26 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Water supply planning
 - Water works management
 - Water purification and quality
 - Pipeline
 - Mechanical and electrical installation
 - Personal programme
 - Financial cooperation
 - Technical cooperation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Health and Welfare
- 2) Japan Water Works Association
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

SEWAGE WORKS ENGINEERING 下水道技術

1. PERIOD

August 19, 1991 to November 21, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) More than three years of practical experience
- 4) Good working knowledge of English
- 5) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic concept of sewage works
 - Collection system
 - Wastewater treatment
 - Sludge handling
 - Case study
 - Water quality analysis
 - Industrial wastewater and its management
 - Practice on Master Plan making
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) City Bureau, Ministry of Construction
- 2) Japan Sewage Works Agency

6. REMARKS

SOLID WASTE MANAGEMENT AND NIGHT SOIL TREATMENT II 廃棄物処理 II

1. PERIOD

May 20, 1991 to July 25, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be technical officials 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 (3) or more years of experience in this field,
- 2) be university graduates or possess equivalent technical qualifications in this field,
- 3) have a sufficient command of spoken and written English,

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction
 - Planning of solid waste management
 - Solid waste collection and transportation
 - Solid waste disposal and treatment
 - Night soil treatment
 - Industrial waste management
 - JICA's activities in the solid waste management field
- 2) Observation tours
- 3) Country report

5. FACILITIES AND INSTITUTIONS

- 1) Environmental Health Bureau, Ministry of Health and Welfare
- 2) Department of Sanitary Engineering, The Institute of Public Health
- 3) Japan Environmental Sanitation Centre
- 4) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

January 13, 1992 to April 27, 1992 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) be university graduates or equivalent
- 2) be directly involved in waste disposal administration for the central or local government, having engineering background and experience of 3 years or more
- 3) be between 25 and 35 years old
- 4) have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

1) Lectures and Practical Training

- a) General Outline
 - Waste Disposal and Public Cleaning Law
 - History of Waste Disposal
 - The State of Treatment
 - Outline of Pollution Control Laws
 - History of Pollution Control
- b) Industrial Waste Disposal
 - Practice at Site (Iron, Chemical and Cement etc.)
 - Intermediate Treatment (Dehydration, Drying, Incineration, Oil-water Separation, Neutralization, Shredding, Toxic Substance Treatment)
 - Final Disposal Site
 - Recycling Elution Test
- c) Waste Disposal
 - Disposal Planning, Education
 - Collection & Transportation (Collection & its Planning, Large-size Domestic Waste)
 - Intermediate Treatment (Incineration and Shredding)
- d) Raw Sewage Treatment
 - The Outline of Collection & Treatment
 - Private Raw Sewage Treatment System
 - Sewerage (Outline of System and Treatment, Inspection of Facilities)

2) Study Trip

5. FACILITIES AND INSTITUTIONS

- 1) Kitakyushu International Association
- 2) Kitakyushu City Government
- 3) The University of Occupational and Environmental Health, Japan
- 4) Kitakyushu University
- 5) Fukuoka University

6. REMARKS

TRANSPORTATION AND TRAFFIC

1. PERIOD

January 16, 1992 to February 26, 1992 (1.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in the field of motor vehicles' administration for safety and pollution control of vehicle construction
- 3) Occupy a responsible position at present in the governmental or public organization
- 4) Good working knowledge of English
- 5) Under 50 years of age

4. DESCRIPTION OF TRAINING

- 1) Lecture
 - Outline of legal system of motor vehicle in Japan
 - Regulation of motor vehicle safety and pollution control measures
 - Motor vehicle maintenance and repair
 - Motor vehicle registration
 - Motor vehicle inspection
 - Motor vehicle transport
 - Controlling traffic operation and reporting traffic accidents
 - Motor vehicle insurance
 - Driver's licence
 - Motor vehicle safety and pollution control
 - Standard and production activities on motor vehicle
 - Road service, adequacy of drivers and traffic control
- 2) Observation and study tours
- 3) Country report
- 4) Study tours

5. FACILITIES AND INSTITUTIONS

- 1) Automobile Inspection & Registration Association (AIRA)
- 2) Regional Transport Bureau, Ministry of Transport
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 62

MODERNIZATION OF PHYSICAL DISTRIBUTION 物流近代化

1. PERIOD

April 11, 1991 to June 16, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) be university graduates or equivalent with occupational experience of more than three (3) years,
- 2) be presently engaged in the field of physical distribution (land transportation) at governmental organizations,
- 3) be between thirty (30) to forty (40) years of age,
- 4) have sufficient command of spoken and written English,

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Administration of physical distribution
 - Planning and coordination for physical distribution
 - Modernization for physical distribution
 - Strategy for physical distribution

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Transport
- 2) Universities and public institutes
- 3) Related industries

6. REMARKS

HIGHWAY CONSTRUCTION SEMINAR II ハイウェイセミナーII

1. PERIOD

September 19, 1991 to November 10, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 2 years
- 4) Under 35 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Road system planning
 - Maintenance and repairs
 - Pavement earth work
- 2) Observation tours
 - Road Traffic Information Centre
 - Kansai district
- 3) Presentation of country reports and discussions

5. FACILITIES AND INSTITUTIONS

- 1) Road Bureau, Ministry of Construction
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 64

TERMINAL FACILITY PLANNING AND URBAN DESIGN

ターミナル計画とデザイン

1. PERIOD

October 3, 1991 to November 30, 1991

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduate or equivalent
- 2) Experience in the field of Urban Road Maintenance more than three years
- 3) presently engaged in the fields of urban planning and urban management
- 4) under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Planning, maintenance of urban terminal facilities
 - Design method of urban terminal facilities
 - Integral management of urban terminal facilities
- 2) Observation tours
- 3) Practical training

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Construction
- 2) Osaka City

6. REMARKS

1. PERIOD

July 15, 1991 to October 6, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) be presently engaged or expected to be engaged in the near future, in engineering work in the field of rolling stock.
- 2) have more than seven (7) years of practical experience after graduation from university, college, or a technical school of equal standing,
- 3) be under forty (40) years of age,
- 4) have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Outline of Japanese rail transport
- 2) Outline of rolling stock
- 3) Management of rolling stock
- 4) Maintenance of rolling stock
- 5) Materials
- 6) Operation and safety systems
- 7) Safety management (accident and prevention)
- 8) New transport systems
- 9) Development of rolling stock
- 10) Manufacturing of rolling stock and components
- 11) Manufacturing of electrical equipment components
- 12) Manufacturing of rolling stock components

5. FACILITIES AND INSTITUTIONS

- 1) International Cooperation Division, International Transport and Tourism Bureau, Ministry of Transport
- 2) International Division, Corporate Planning Department, East Japan Railways Company (JR East)
- 3) Japan Rolling Stock Exporters' Association (JARSEA)
- 4) Japan Association of Rolling Stock Industries
- 5) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

October 14, 1991 to December 22, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) Be presently engaged, or expected to be engaged in the near future, in planning and management work in railway electrification
- 2) Be university graduates or equivalent who majored in electrical engineering
- 3) Have more than five (5) years of practical experience
- 4) Be under 40 years of age
- 5) Have good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lecture
 - Planning of railway electrification
 - Effects and economy by electrification
 - Equipments for electric traction and maintenance of them
 - Performance and maintenance of electric rolling stocks
 - Improvement of railway tracks
 - Planning of railway operation
- 2) Field study (observation)
 - Electrification project site
 - Replacement work of electric equipments
 - Power sources facilities and substations
 - Comprehensive inspection car
 - Traction facilities of private railways
 - Manufacturing plants of electric equipments

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Transport
- 2) Japan Railways Group (JR Group)
- 3) Railway Electrical Engineering Association of Japan
- 4) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

January 30, 1992 to March 4, 1992 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduate or equivalent
- 2) More than 5 years of practical experience in this field
- 3) Under 40 years old
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Outline of railway in Japan
 - History of railway development in Japan
 - The law related to railway management
 - Assistance and Subsidiaries to railway companies in Japan
 - From JNR to JR (outline of JNR destruction)
 - New management systems of JR group
 - Management system of other railway private enterprises
- 2) Equipment investment planning
- 3) Establishment of the railroad rate in Japan
- 4) Activation and modernization of railway
 - Improvement of deficit operation by change of management way
 - The operation shifting from manual to automation
- 5) Outline of LRT

5. FACILITIES AND INSTITUTIONS

- 1) Japan Railway Technical Service
- 2) Ministry of Transport
- 3) Japan Railways (JR) Group

6. REMARKS

1. PERIOD

January 13, 1992 to April 5, 1992 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) be railway signal engineering officials with more than five (5) years of practical experience,
- 2) be presently engaged or expected to be engaged in the near future, in planning and administration work in the field of Signal Engineering,
- 3) be university or college graduates or have the equivalent educational backgrounds,
- 4) have a sufficient command of spoken and written English,
- 5) be not more than forty (40) years of age

4. DESCRIPTION OF TRAINING

- 1) Management
 - Signal Engineering in General
 - Railway Telecommunication in General
 - Planning of Development
 - Maintenance
- 2) Basic Signal System
 - Fundamental
 - Switch Point
 - Track circuit
 - Blocking System
 - Interlocking
- 3) Safety System and Others
 - Relay Interlocking and Electronic Interlocking
 - Automatic Train Stop System (ATS) and Automatic Train Control System (ATC)
 - Centralized Traffic Control System
 - Electronic Block System
 - Railway Traffic Control System
 - Dispatcher Information System
 - Railway Telecommunication

5. FACILITIES AND INSTITUTIONS

- 1) International Cooperation Division, International Transport and Tourism bureau, Ministry of Transport
- 2) International Division, Corporate Planning Department, East Japan Railway Company (JR East)
- 3) Japan Association of Signal Industries
- 4) Signal Manufacturers
- 5) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

SEAFARER'S MANAGEMENT SYSTEM 船員管理システム

1. PERIOD

October 17, 1991 to November 27, 1991 (1.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Governmental or other public officials who are in managerial or leading positions in administrative organization and/or training institution for seafarers
- 3) Between 25 and 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) *Labour Management of Seafarers*
 - Standards of Labour Management
 - Actual Labour Control in Oceangoing Vessels
 - Seafarer Salaries and Unions
- 2) *Administration of and Certification System for Seafarers*
 - Administration System
 - Certification System
 - National Examination System for Ship's Officers
- 3) *Educational System for Seafarers*
 - Educational System I
 - Educational System II
 - Study Tours to Institutions, Training Ship for Seafarer Education and Training Center owned by Oceangoing Shipping Company, etc.
- 4) *Circumstances of Japanese Shipping*
 - Modernization of the Labour Control System
 - Current State and issues of the Mixed-Manning System

5. FACILITIES AND INSTITUTIONS

- 1) Maritime Technology and Safety Bureau, Ministry of Transport
- 2) Maritime International Cooperation Centre of Japan
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

MARINE TECHNIQUE (NAVIGATOR) 航海技術 (航海士)

1. PERIOD

April 4, 1991 to December 2, 1991 (8 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) High school graduate with more than three years of seetime, or those who have the equivalent knowledge and experience, preferably including an experience as an officer and should not be in possession of a certificate of STCW III or higher.
- 2) Male, between twenty-two (22) and thirty-five (35) years of age
- 3) Have a sufficient command of both spoken and written English
- 4) Good health, both physically and mentally

4. DESCRIPTION OF TRAINING

- | | |
|--|--|
| 1) Japanese Language | 18) Ship's power Plant |
| 2) Personal Computer | 19) Basic Seamanship |
| 3) Nautical Instrument | 20) Prevention of Marine Pollution |
| 4) Aids to Navigation | 21) Medical Care and Aids |
| 5) Nautical Charts and Publications | 22) Life Saving |
| 6) Tides and Currents | 23) Fire-fighting, etc.
(MDPC-Yokosuka Training Center) |
| 7) Terrestrial Navigation | 24) Marine Disasters |
| 8) Celestial Navigation and Great Circle Sailing | 25) Search and Rescue |
| 9) Electronic Navigation | 26) Training and Management of Crew |
| 10) Voyage Planning | 27) Rules of the Road |
| 11) General Ship Design | 28) International Conventions Laws and Regulations |
| 12) Ship Construction Strength | 29) Ship's Survey and Inspection |
| 13) Stability and Damage Control | 30) RKK Ship |
| 14) Watchkeeping | 31) Training Ship of Institute for Sea Training |
| 15) Meteorology and Oceanography | 32) Observation Tour |
| 16) Tropical Meteorology | |
| 17) Ship handling | |

5. FACILITIES AND INSTITUTIONS

Okinawa Branch of Japan Educational Institute for Seamen (JEIS)

6. REMARKS

1. PERIOD

April 4, 1991 to December 2, 1991 (8 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) High school graduate with more than three years of seetime, or those who have the equivalent knowledge and experience, preferably including an experience as an engineer officer and should not be in possession of a certificate of STCW III or higher.
- 2) Male, between twenty-two (22) and thirty-five (35) years of age
- 3) Have a sufficient command of both spoken and written English
- 4) Good health, both physically and mentally

4. DESCRIPTION OF TRAINING

- | | |
|---|---|
| 1) Japanese Language | 13) Electric and Electronic machines and equipments |
| 2) Personal Computer | 14) Life Saving |
| 3) Basic knowledge on Engine | 15) Fuel and Lubricants |
| 4) Internal Combustion Engines | 16) Auxiliary Machineries |
| 5) Gas turbine Engines | 17) Prevention of Marine Pollution |
| 6) Outline of Steam turbine Engines | 18) Ship's Survey Inspection |
| 7) Propeller, propeller shaft and transmitting system | 19) International Conventions and Maritime Laws |
| 8) Boilers | 20) Medical Care and First Aid |
| 9) Practice on Crayton Boiler | 21) Fire-Fighting (MDPC Yokosuka Training Center) |
| 10) Ship's Workshop and Tools | 22) General Marine Engineering |
| 11) Ship-building Engineering and the Structure of Ship | 23) RKK Ship |
| 12) Outline of Navigation | 24) Training Ship of Institute for Sea Training |
| | 25) Observation Tour |

5. FACILITIES AND INSTITUTIONS

Okinawa Branch of Japan Educational Institute for Seamen (JEIS)

6. REMARKS

1. PERIOD

August 22, 1991 to October 26, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seven (7)

3. QUALIFICATIONS

- 1) High school graduates or equivalent with sufficient knowledge on physics
- 2) Middle class officers in the maintenance and management of aids to marine navigation
- 3) Under 45 years of age
- 4) Have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Maritime Safety Activities in Japan
 - Maritime Traffic in Japan
 - Aids to Navigation System in Japan
 - Visual Aids to Navigation
 - Outline of Buoys
 - Outline of Radio Aids to Navigation
 - Treatment of Lighthouse Monitoring Equipment
 - Automatic Control for Lighthouse
 - Treatment of Lighting Equipment
- 2) Observation tours
 - Maritime Safety Agency Research Centre
 - Maritime Safety School
 - Omega Data Analysis Centre
 - Tokyo Lighted Beacon
 - Decca Station
 - Loran Station
 - Tokyo Bay Traffic Advisory Service Centre
 - Vessel Traffic Information Station
 - Hesaki Lighthouse
 - Tidal Stream Signal Station
 - Omega Station
 - Aids to Navigation Research Vessel
 - Buoy Tender
 - Wave Activated Generator Factor
 - Buoy Factory
 - Air Cell Factory
 - Solar Battery Factory
 - Chain Factory

5. FACILITIES AND INSTITUTIONS

- 1) Aids to Navigation Department, Maritime Safety Agency, Japan
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 72

MARINE DISASTER PREVENTION AND RESCUE OPERATION

救難防災

1. PERIOD

August 29, 1991 to November 25, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Five (5)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than five (5) years in the field of marine disaster prevention and, search and rescue operation
- 2) Those who are presently engaged in the above-mentioned field
- 3) Under forty (40) years of age
- 4) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - organization and function of JMSA,
 - International maritime search and rescue activities under the International Convention on Maritime Search and Rescue, 1979,
 - maritime search and rescue systems in Japan,
 - maritime search and rescue operations,
 - case studies of maritime search and rescue operations,
 - Method on rescue of capsized and a grounded ship
 - Global Maritime Distress and Safety System (GMDSS),
 - information collection system of JMSA,
 - prevention of marine pollution system,
 - JMSA' activities on Marine Disaster Prevention,
- 2) Practice
 - experimental sail on a JMSA's fire fighting vessel or craft,
 - work on marine disaster prevention,
 - experimental sail on a JMSA's patrol vessel,
 - experimental fly in a JMSA's aircraft (observation of Special Rescue Station),
 - rescue training including special rescue,
- 3) Observation and Study Tour
 - training of Special Rescue Team and patrol vessels with improved rescue capability of JMSA
- 4) Discussion

5. FACILITIES AND INSTITUTIONS

- 1) Japan Maritime Safety Agency (JMSA)
- 2) Disaster Prevention Training Centre

6. REMARKS

1. PERIOD

May 13, 1991 to June 28, 1991 (1.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) be university graduates or have the equivalent academic background,
- 2) have occupational experience of more than 3 years in shipping authority or business, and be eager to acquire basic knowledge of the shipping business,
- 3) be presently engaged in shipping authorities or business,
- 4) be under forty (40) years of age,
- 5) have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Presentation and Discussion of Country Report
- 2) Lectures
 - a) Governmental Administration for Shipping
 - Shipping Policy of Japan
 - Present Condition of Container Terminals in Japan
 - b) Maritime Law
 - Ocean Carrier's Liability
 - Charter Party and Maritime Arbitration
 - Cargo Claim
 - c) Ship's Operation Business
 - Liner Shipping Service of the World
 - Shipping Conference
 - Activities of Japan Shippers' Council
 - Liner Ship's Operation Business
 - Containerization in the Shipping Field
 - Container Management
 - Purchasing and Leasing of Container
 - Container Terminal Operation
 - International Combined Transportation
 - Profitability Calculation in New Vessel
- 3) Practical Study
- 4) Observation and Study Tour

5. FACILITIES AND INSTITUTIONS

- 1) International Shipping Division, International Transport and Tourism Bureau, Ministry of Transport
- 2) The Maritime International Cooperation Center of Japan (MICC)
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 74

SEMINAR ON PORT ADMINISTRATION AND MANAGEMENT

港湾管理運営セミナー

1. PERIOD

September 26, 1991 to November 25, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seventeen (17)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Be presently engaged or will be engaged in the administrative work and/or management
- 3) Occupational experience of more than 8 years in the field of ports and harbours
- 4) Between 35 and 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Introduction to Ports and Harbours in Japan
 - Planning Development Policy of Ports and Harbours
 - International Cooperation in Ports and Harbours
 - Management and Operation of Ports and Harbours
- 2) Case Study
- 3) Presentation of Country Report
- 4) Observation Trips

5. FACILITIES AND INSTITUTIONS

- 1) Bureau of Ports and Harbours, Ministry of Transport
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

May 14, 1991 to September 22, 1991 (4.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Outline of ports and harbours in Japan
 - Planning techniques of ports and harbours
 - Design techniques of port and harbour facilities
 - Execution techniques of port and harbour works
 - Basic theory of port and harbour engineering
- 2) Exercise
 - Design of port and harbour facilities
 - Planning of ports and harbours
- 3) Intensive study of harbour works at Onahama Port
- 4) Presentation of country reports and discussion
- 5) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ports and Harbours Bureau, Ministry of Transport
- 2) Ports and Harbours Research Institute
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

DEVELOPMENT OF CONTAINER TERMINAL コンテナ埠頭整備計画

1. PERIOD

January 14, 1992 to March 8, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent with more than 8 years of occupational experience in development and management of terminal
- 2) Engaged in the field of development and management of container terminal of the government or related public organization
- 3) Between 30 and 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Containerization and development of container terminals
 - Planning method of container terminal
 - Development of container terminal
- 2) Intensive study (Case study)
 - Management and maintenance of terminal (Kobe port)
- 3) Observation tours
 - Container terminal of Tokyo, Yokohama, Shimizu, Osaka and Nagoya Port

5. FACILITIES AND INSTITUTIONS

- 1) Ports and Harbours Bureau, Ministry of Transport
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 77

AERODROME SEMINAR

空港セミナー

1. PERIOD

August 15, 1991 to October 6, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Qualified in their respective fields
- 3) Occupational experience of more than 3 years
- 4) Under forty (40) years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Introduction to Civil Aviation in Japan
 - Airport development
 - Airport planning
 - Airport construction and maintenance
 - Management and operation of airport
- 2) Discussion on the subjects of country reports
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Civil Aviation Bureau, Ministry of Transport
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

AVIATION SECURITY SEMINAR 航空保安セミナー

1. PERIOD

January 30, 1992 to February 26, 1992 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fourteen (14)

3. QUALIFICATIONS

- 1) University graduates, or equivalent with occupational experience of more than 5 years
- 2) Presently engaged in airport management and aviation security in the government organization or the public authorities
- 3) Under 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - a) Civil Aviation in Japan
 - b) International Measures for Aviation Security
 - Outline of Unlawful Acts Against Civil Aviation in the World
 - International Treatment of Prevent Acts of Unlawful Interference Against Civil Aviation
 - International Measures to Prevent Acts of Unlawful Interference Against Civil Aviation
 - c) Countermeasures for Aviation Security in Japan
 - Organization for the Prevention of Unlawful Acts Against Civil Aviation in Japan
 - Countermeasures to Prevent Acts of Unlawful Interference Against Civil Aviation in Japan
 - Management of Response to Acts of Unlawful Interference in Japan
 - d) Security Control Systems
 - Preventive Measures by Air Carriers Against Acts of Unlawful Interference
 - Manuals for Security Control
 - Training of Aviation Security Personnel
 - Outline of Equipment and Its Development
- 2) Country Report
- 3) Observation

5. FACILITIES AND INSTITUTIONS

- 1) Civil Aviation Bureau, Ministry of Transport
- 2) Japan Transport Consultants Association
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 79

SEMINAR ON AIR TRAFFIC CONTROL 航空管制セミナー

1. PERIOD

October 15, 1991 to November 29, 1991 (1.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University or college graduates or equivalent
- 2) Occupational experience of more than 3 years
- 3) Presently engaged in Air Traffic Control or in administration of said field
- 4) Under 45 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures:
 - Civil Aviation and Transportation (Policy of Transportation, Administrative System, Aviation Statistics and Accounting System)
 - Air Traffic Services Now and Future (Air Navigation Aids, Operation & Flight Inspection Services, ATS planning, Flight Inspection, etc.)
 - Air Traffic Control Services in Japan (Organization & History of ATC in Japan, Regulation of ATC, Structure of Controlled Airspace, etc.)
- 2) Study-tours:
 - Study-tours to Airports, Area Control Center and Aeronautical Safety College, etc.
- 3) Discussion on Country Reports submitted by Participants

5. FACILITIES AND INSTITUTIONS

- 1) Civil Aviation Bureau, Ministry of Transport

6. REMARKS

This course is initiated in 1989.

URBAN TRANSPORT SEMINAR

都市交通セミナー

1. PERIOD

May 16, 1991 to July 6, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Occupational experience of more than three (3) years
- 3) Presently engaged in urban transport administration preferably in the field of railway
- 4) Under forty (40) years of age

4. DESCRIPTION OF TRAINING

- 1) General orientation on Japan
- 2) Lectures
 - Outline of urban transport in Japan
 - Specific characteristics of each mode
 - Method of general urban transport planning
 - Case study of the actual railway project
- 3) Discussion on the subjects of country reports
- 4) Observations

5. FACILITIES AND INSTITUTIONS

- 1) International Transport and Tourism Bureau, Ministry of Transport
- 2) Japan Transport Consultants Association
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 81

COMPREHENSIVE URBAN TRANSPORTATION PLANNING

総合都市交通施設計画

1. PERIOD

September 24, 1991 to November 28, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than three (3) years
- 2) Presently engaged in urban transport administration
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Presentation of country reports and discussions
- 2) Lectures
 - Outline
 - Present situation and problems of urban transportation in Japan
 - Comprehensive urban transportation planning
 - Individual transportation facility planning
- 3) Observation tours
- 4) Practices
 - Urban transportation planning
- 5) International conference

5. FACILITIES AND INSTITUTIONS

- 1) City Bureau, Ministry of Construction
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 82

SEISMOLOGY AND EARTHQUAKE ENGINEERING II 地震工学Ⅱ

1. PERIOD

September 2, 1991 to July 27, 1992 (10.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) University graduates or equivalent with professional experience of more than 5 years
- 2) Well versed in basic mathematics (Differential and integral calculus, etc.)
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Both of courses: General seismology, basic programming of computer, etc.
 - Seismology course: Seismological application computer, elasticity, etc.
 - Earthquake engineering course: Earthquake resistant design of building structure, etc.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) International Institute of Seismology and Earthquake Engineering (IISEE), Building Research Institute, Ministry of Construction
- 2) Tsukuba International Centre, JICA

6. REMARKS

No. 83

SEMINAR ON SEISMOLOGY AND EARTHQUAKE ENGINEERING

地震工学セミナー

1. PERIOD

November 18, 1991 to December 20, 1991

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twenty (20)

3. QUALIFICATIONS

- 1) Preferably exparticipants in Group Training Course in Seismology and Earthquake Engineering or their equivalent
- 2) Engaged in the field of Earthquake Engineering more than 10 years
- 3) More than 35 years of age
- 4) Having a sufficient command of spoken and written English
- 5) Good health

4. DESCRIPTION OF TRAINING

- 1) Seminar on present conditions of structures which have suffered many earthquake damages in recent earthquakes and their main causes
- 2) Disaster-prevention countermeasures for structures which have suffered earthquake damages.

5. FACILITIES AND INSTITUTIONS

- 1) International Institute of Seismology and Earthquake Engineering, Ministry of Construction
- 2) Tsukuba International Centre, JICA

6. REMARKS

METEOROLOGY 气象学

1. PERIOD

August 15, 1991 to December 19, 1991 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Six (6)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Be presently engaged in meteorological observation or forecasting, of the governmental or related public bodies
- 3) Occupational experience of more than 3 years
- 4) Under forty (40) years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Classroom lectures and exercises
 - Theoretical basics for operational meteorology
 - Meteorological observation system and instrumentation including automated observation station network and advanced radar system
 - Marine meteorological services
 - Personal computer utilization for meteorological services
 - Meteorological satellite system and satellite data application including nephanalysis
 - Aviation weather service
 - Selected topics from research activities of JMA
 - Climatology and application of climatological statistics
 - Meteorological analysis and forecasting including introduction to operational numerical weather prediction models of JMA
- 2) Study tours and visits
 - Study tours to District Meteorological Observatories and Local Meteorological Observatories
 - Technical visits to airline company, meteorological instrument factories, satellite data receiving stations, etc.

5. FACILITIES AND INSTITUTIONS

- 1) Japan Meteorological Agency (JMA)
- 2) Meteorological Research Institute of JMA
- 3) Meteorological Satellite Centre of JMA
- 4) Meteorological College of JMA

6. REMARKS

No. 85

TECHNOLOGY FOR DISASTER PREVENTION SEMINAR 防災技術セミナー

1. PERIOD

September 9, 1991 to December 9, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) Scientists or technicians in the related field to disaster prevention
- 2) University graduates in the related sciences and technologies to disaster prevention or those who have equivalent qualification
- 3) Should have experiences of more than seven (7) years in the related field to disaster prevention
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Seismology and earthquake damage mitigation
 - Prevention against tsunami and fire induced by an earthquake
 - Rainfall disaster and flood control
 - Prevention against slope failure and other geological hazards
 - Application of remote sensing technology to disaster prevention
(Specially arranged for International Space Year)
- 2) Advanced study
- 3) Observations

5. FACILITIES AND INSTITUTIONS

- 1) National Research Institute for Earth Science and Disaster Prevention (NIED)
- 2) Tsukuba International Centre, JICA

6. REMARKS

VOLCANOLOGY AND VOLCANIC SABO ENGINEERING

火山学・火山砂防工学

1. PERIOD

March 25, 1992 to September 18, 1992

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University or college graduated or equivalent
- 2) Occupational experiment of more than 3 years
- 3) Qualified in their respective fields
- 4) Under 35 years of age
- 5) Good working Knowledge of English

4. DESCRIPTION OF TRAINING

Participants shall be introduced basic and modern concepts of volcanology and mitigation of volcanic disasters through lectures, exercises and field studies.

The course is divided into three categories of Common Course, Volcanology and Volcanic Sabo Engineering Course

- 1) Common course
 - To obtain comprehensive and general knowledge of volcanology and volcanic disaster prevention engineering.
- 2) Volcanology course
 - Earth's structure, origin and nature of magmas, and how volcanoes work,
 - Basic theory of seismology, geodesy, geomagnetism geothermy and geochemistry with the aid of exercise,
 - Volcanic hazards and available methods for hazard reduction including forecasting volcanic behavior,
 - Method of volcano monitoring, interpretation and analysis of data.
- 3) Volcanic Sabo Engineering course
 - Basic theories necessary for study and planning of erosion and sediment control engineering,
 - Mechanism and structure of debris mud flows,
 - Technology of administrative volcanic disaster countermeasure.

Participants can select either Volcanology or Volcanic Sabo Engineering Course at the time of application.

5. FACILITIES AND INSTITUTIONS

- 1) Department of Erosion and Sediment Control, Ministry of Construction
- 2) Japan SABO Association
- 3) Hatagaya International Centre, JTCA
- 4) Tukuba International Centre, JICA
- 5) Volcanology Observatories and Research Institutes concerned

6. REMARKS

INFRASTRUCTURE

1. PERIOD

August 15, 1991 to October 31, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than 3 years
- 2) Qualified in their respective fields
- 3) Presently engaged in highway construction
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and field study
 - Roads and Bridges in Japan
 - Design and construction of substructures
 - Design and construction of concrete bridges
 - Fundamental bridge design theory
 - Design and construction of bridges in Japan
 - Maintenance and Repair of bridges
- 2) Presentation and discussion on country report
- 3) Observation

5. FACILITIES AND INSTITUTIONS

- 1) Road Bureau, Ministry of Construction
- 2) Japan Association of Steel Bridge Construction
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

CONSTRUCTION ENGINEERING (CIVIL WORKS) II 建設施工Ⅱ

1. PERIOD

August 15, 1991 to November 29, 1991 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University or college graduates who specialized in civil engineering, or equivalent
- 2) Professional experience of more than 5 years in planning, design, execution and project control of civil works
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - International construction projects
 - Basic engineering
 - Construction management
 - Construction technology (road and others)
- 2) Observations
 - Visits and observations to construction sites
 - Study tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Construction
- 2) Faculty of Engineering, Kyoto University

6. REMARKS

No. 89

CONSTRUCTION PROJECT MANAGER 建設施工管理者

1. PERIOD

October 3, 1991 to December 19, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or those who have undergone higher education in the field of civil engineering or equivalent
- 2) At least 5 years of experience as construction managers
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Important elements related to construction work (lectures)
- 2) Work execution plans (lectures, case studies, site observations)
- 3) Process control (lectures, case studies, site observations)
- 4) Group study (site observations, presentation, discussion, evaluation)

5. FACILITIES AND INSTITUTIONS

Japan Construction Training Center (Foundation)

6. REMARKS

SOIL ENGINEERING AND FOUNDATION 土質及び基礎工学

1. PERIOD

October 17, 1991 to December 14, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) University graduates or equivalent (soil engineering)
- 2) More than 8 years practical experience in central or local governments
- 3) Under 45 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Outline of earth structures
 - Outline of foundation of structures
 - Site exploration and laboratory soil test
 - Improvement of soil engineering properties
 - Evaluation of soil foundation design-case study
 - Others
- 2) Discussions with the guidance of Japanese lecturers
 - Soil improvement planning, foundation design, project feasibility, etc.
- 3) Practice
 - Soil survey method
 - Soil test method
 - Foundation design
- 4) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Construction

6. REMARKS

No. 91

REGIONAL DEVELOPMENT PLANNING SEMINAR 国土開発セミナー

1. PERIOD

October 15, 1991 to November 28, 1991 (1.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Nine (9)

3. QUALIFICATIONS

- 1) Presently engaged in the planning or implementation of national or regional development projects and policy
- 2) Under forty (40) years of age
- 3) Be university graduates or the equivalent
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - *History of regional development policy in Japan*
 - *Population problems and regional development planning*
 - *Urban and rural area development planning*
 - *Land use plan, water resources development plan, transportation plan and housing plan*
 - *Disaster countermeasure in Japan*
 - *Theory and method of regional development planning*
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) National Land Agency
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 92

SEMINAR ON ADMINISTRATION FOR DISASTER PREVENTION

防災行政管理者セミナー

1. PERIOD

May 27, 1991 to June 23, 1991 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) Presently engaged in governmental agencies responsible for disaster prevention
- 2) Under forty-five (45) years of age
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussions
 - Disasters in the world and worldwide disaster prevention systems
 - Basic framework of disaster prevention in Japan
 - Disaster countermeasures; research and development, disaster preparedness, national land conservation, disaster emergency and recovery measures, information and tele-communication system, etc.
 - Japan's international cooperation and IDNDR
- 2) Observation tours

Center, JICA

5. FACILITIES AND INSTITUTIONS

- 1) National Land Agency
- 2) Tokyo International Center, JICA

6. REMARKS

RIVER AND DAM ENGINEERING 河川及びダム工学

1. PERIOD

September 2, 1991 to December 9, 1991 (3.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) University graduates specialized in civil engineering or equivalent
- 2) Occupational experience of more than 5 years in the field of construction project management of flood control works or water resources development projects
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Introduction (Characteristics of river and the outline of river works in Japan)
- 2) Hydrology (Statistical procedure of hydrological data and the run-off analysis)
- 3) River Planning (only for River group) (techniques for river planning and design of river facilities)
- 4) Dam engineering (only for Dam group) (techniques for planning, design, construction, operation and maintenance of dam)
- 5) SABO (Erosion and sediment control) works
- 6) Individual training
- 7) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Construction
- 2) Tsukuba International Centre, JICA

6. REMARKS

Participants will be separated into two groups, namely River Group and Dam Group
River Group will learn the river improvement, and Dam Group will learn the techniques for dam project

1. PERIOD

August 22, 1991 to October 12, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than 3 years
- 2) Presently engaged in city planning
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - History of Japanese Cities
 - City Planning Legislation
 - Land Use Planning and Building Regulations
 - Japanese Urban Policies; Roles of National and Local Government
 - Japanese Tax System
 - Recent Problems in Japanese Large Cities
 - Intelligent City
 - Contribution of Private Sector in Urban Development
 - Discussion about City Planning and Urban Policy
 - Road Construction and its Problems in Japan
 - Urban Rapid Transit Railroad System
 - Urban Transportation Policies and its Problems
 - Alternative Urban Development Methods
 - Housing Areas Development in relation to Railway Construction
- 2) Presentation of "Country Report" and Group Discussion
- 3) Case Study
- 4) Field Trip

5. FACILITIES AND INSTITUTIONS

- 1) Ministry of Construction
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 95

URBAN DEVELOPMENT 都市整備

1. PERIOD

May 13, 1991 to July 8, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) University graduates or equivalent with occupational experience of more than 3 years
- 2) Presently engaged in planning and/or implementation of urban development and redevelopment
- 3) Under forty (40) years of age
- 4) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures and observations
 - a) Japanese policy for urban areas
 - Present situation of Japanese cities
 - Japanese administrative system and budget for urban development
 - Urban planning
 - b) Urban Development projects
 - KUKAKU-SEIRI (Land readjustment project)
 - Urban area renewal project
 - New town development project
- 2) Presentation and Discussion of Country Report
- 3) Group Discussion
 - Deepen understanding on contents of training course
- 4) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) City Bureau, Ministry of Construction
- 2) Japan Association Land Readjustment
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

HOUSING 住宅建設

1. PERIOD

October 17, 1991 to December 9, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) Mid-career officers in charge of housing policy
- 2) University graduates or equivalent
- 3) Between 30 and 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Housing conditions and policies in Japan
 - Public housing supply
 - Housing finance
 - Urban planning system
 - Development of residential area
 - Modernization of housing production
 - Planning and development of new town
 - Housing problem and housing policy in developing countries
- 2) Group study
- 3) Presentation of country reports
- 4) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Housing Bureau, Ministry of Construction
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 97

IMPROVEMENT OF HOUSING AND LIVING ENVIRONMENT SEMINAR

住宅・住環境改善セミナー

1. PERIOD

January 30, 1992 to March 1, 1992 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent,
- 2) Be experienced officials in charge of executing various development projects on housing and living environment at the central or local government, or at the related governmental organization,
- 3) Be between thirty (30) and forth-five (45) years of age,
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Housing problems and countermeasures in Japan
 - Improvement projects on housing and living environment
 - History of the housing policy and technological development in Japan
 - Rural development in housing and living environment
 - Housing problems and countermeasures in the third world countries
- 2) Special Discussion based on Country Report
- 3) Group Study
- 4) Study Tour

5. FACILITIES AND INSTITUTIONS

- 1) Housing Bureau, Ministry of Construction
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

April 11, 1991 to June 5, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) University graduates or equivalents with occupational experience of more than five years and with the general knowledge in the broad field of building engineering such as building administration, building designing and structural engineers
- 2) Be officials of the government or the related government organization and be expected to have leading positions in building construction field
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Introduction
 - Standard Specification
 - System Concerning Building Laws and Regulations
 - Building Standard
 - Facility management
 - Highrise Building Construction Technology
 - Building Physics and Environmental Research
 - Public Housing Construction
 - Structural Design Technology
 - Fires Prevention of Building
 - Significance of Conventional Housing System
 - Construction Management
 - Quality Control
 - Prefabricated Housing System
 - Building Materials
 - Computer aided design, Robotic Technology
- 2) Observations
- 3) Country Report
- 4) Study Tour
- 5) Group Study

5. FACILITIES AND INSTITUTIONS

- 1) The Building Center of Japan (BCJ)
- 2) Housing Bureau, Ministry of Construction
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

February 4, 1992 to March 17, 1992 (1.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Graduate of University majored in the Civil Engineering Course
- 2) Occupational experience in the field of Public Construction more than seven (7) years

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Advanced technology of construction in general
 - Advanced construction materials and construction works
 - Advanced inspection for construction
- 2) Observation tours
- 3) Practical training

5. FACILITIES AND INSTITUTIONS

Japan Construction Training Center

6. REMARKS

No. 100

SURVEYING AND MAPPING (GEODETIC SURVEYING) II

測量技術（測地学）II

1. PERIOD

May 27, 1991 to November 25, 1991 (6 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be engaged in mapping at present or in the near future, and have the knowledge of geography, mathematics and physics of university graduate level or equivalent experience of more than 3 years in the field of geodetic surveying
- 2) Good working knowledge of English
- 3) Under thirty-five (35) years age

4. DESCRIPTION OF TRAINING

- 1) Introduction (Current activities for surveying and mapping in Japan and the activities for geodetic surveying of GSI).
- 2) Survey mathematics
- 3) Geodetic survey
- 4) Applied survey
- 5) Technical report

5. FACILITIES AND INSTITUTIONS

- 1) Geographical Survey Institute (GSI), Ministry of Construction
- 2) Tsukuba International Centre, JICA

6. REMARKS

- 1) This course is conducted to focus each of two themes mentioned below in turn every year.
 - a) Geodesy, surveying management
 - b) Mapping
- 2) In Japanese fiscal year 1992, the theme of this course will be "Mapping"

**HYDROGRAPHIC SURVEY (INTERNATIONALLY ACCREDITED
CATEGORY B COURSE)**

水路測量 (國際認定 B 級)

1. PERIOD

April 11, 1991 to November 13, 1991 (7 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be technical college graduates or equivalent with at least two (2) years occupational experience in hydrographic services
- 2) have obtained credits for two (2) years' course of mathematics and physics at least on the level of technical college or equivalent educational institution,
- 3) be presently employed at the national hydrographic office or other related organization,
- 4) have a sufficient command of spoken and written English,
- 5) be not more than forty (40) years of age

4. DESCRIPTION OF TRAINING

- | | |
|--|---|
| <ol style="list-style-type: none">1) Lectures<ul style="list-style-type: none">- Computing- Physics: Theory- Applied Physics- Hydrography: Control
(Geodesy, Projections, Horizontal Control, Vertical Control, Astronomy, etc.)- Hydrography: Practice
(Positioning at Sea, Track Control, Measurement of Tide, Determination of Depth, etc.)- Environmental
(Meteorology, Oceanography, Tides, etc.)- Nautical Science
(Navigation, Seamanship, etc.)- Legal Aspects- Nautical Charting Surveys
(Sweeping, Tides and Tidal Streams, Photogrammetry, Data Processing, Law of the Sea, etc.)- Port and Harbour Surveys
(Control Surveys, Determination of Position, Special Purpose Survey and Operations, Sedimentology, etc.) | <ol style="list-style-type: none">2) Practice<ul style="list-style-type: none">- Data Processing of Harbour and Coastal Surveys- Computer Programming- Control Surveys- Astronomy- Cartography3) Field Training<ul style="list-style-type: none">- Field Training of Harbour and Coastal Surveys- Field Training of Navigation, Seamanship, Submarine Geology, etc. on board Survey Vessel SHOYO, 1,900 tons4) Observation and Study Tours |
|--|---|

5. FACILITIES AND INSTITUTIONS

- 1) Hydrographic Department, Japan Maritime Safety Agency
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

International Accreditation of the Training Course

This Group Training Course in Hydrographic Survey has been recognized by the FIG/IHO International Advisory Board as Category B Course pertaining to Specialization in Nautical Charting and Port and Near Shore Surveys since 1 June 1988. Participants who have successfully completed the course and passed the examinations required therein will be awarded a certificate of Category B Hydrographic Surveyor.

PHYSICAL OCEANOGRAPHIC SURVEY 海洋物理調査

1. PERIOD

Not conducted in 1991

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

3. QUALIFICATIONS

- 1) College graduates or equivalent
- 2) Qualified in their respective fields
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Dynamics of ocean current
 - Tide and tidal current
 - Field training of oceanographic observation
 - Data processing of oceanographic observation
 - Field training of tide and tidal current observation
 - Data processing of tidal current observation
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Hydrographic Department, Maritime Safety Agency

6. REMARKS

The course is conducted alternately with the Nautical Charting

1. PERIOD

November 7, 1991 to March 20, 1992 (4.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Junior college or special school graduates or equivalent
- 2) Qualified in their respective fields
- 3) Under 35 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

1) Lecture

- a) Nautical charting
 - General aspect of nautical charts
 - Outline of hydrographic survey
 - Map projection
 - Construction of nautical chart
 - Cartographic generalization
 - Chart symbols and abbreviations
 - Artistic character of map (Map designing)
 - Nautical chart preparation
 - General aspect of nautical publications
 - Updating of nautical charts
- b) Geodesy
- c) General aspect of navigation
- d) Introduction of computers
- e) Mapping CAD

2) Practice

- a) Nautical charting
 - Compilation planning
 - Compilation
 - Drawing
 - Proofreading and examination
 - Preparation of chart correction blocks (chartlets)
 - Reproduction and printing
- b) Mapping CAD
- 3) Field training
 - Navigation (abroad Survey Vessel SHOYO)
 - Investigation of port
- 4) Observation and study tours

5. FACILITIES AND INSTITUTIONS

- 1) Hydrographic Department, Maritime Safety Agency
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

The course is conducted alternately with the Physical Oceanographic Survey

**POSTAL SERVICE, TELECOMMUNICATION AND
BROADCASTING**

RADIO FREQUENCY MONITORING 電波監視

1. PERIOD

August 13, 1991 to October 5, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Be those who have practical experience in the field of radio regulatory administration (radio frequency monitoring, frequency management, etc.) or those who may engage in this field of work within a year,
- 2) Be college graduates or those who have the equivalent knowledge,
- 3) Have a sufficient command of spoken and written English,
- 4) Be under forty (40) years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Outline of Radio Regulatory Administration Laws and Regulations of Radio Regulations
 - Frequency Management
 - Practice of Frequency Allocation
 - Radio Operators Qualification System
 - Organization and System of Monitoring Activities
 - Practical Rules of Monitoring Activities (Inspection, Detection of Illegal Frequency, Investigation of Interference and International Monitoring)
 - Site Selection of Monitoring Stations
 - Outline of monitoring facilities
 - Maintenance of Monitoring Equipment
 - Aeronautical Radio Station
 - Land Radio Communication Station (I), (II)
 - Maritime Radio Station
 - System for Telecommunications Administration Real-Time Service (STARS)
- 2) Practices
 - Monitoring Equipment
 - Operation of Monitoring Equipment (Measurement of Frequency and Frequency Band Width, Automatic Frequency Spectrum Recorder and Measurement of Field Strength, Direction Finder and Movie Monitoring VAN)
 - Practical study at the Telecommunications Dept. of the Kanto Telecommunications Administration Bureau
 - Practical study at the International Monitoring Dept. Kanto Telecommunications Administration Bureau
 - Practical Training at the Telecommunications Dept. of a regional Telecommunications Administration Bureau
- 3) Observation tours
 - Kansai Observation tour

5. FACILITIES AND INSTITUTIONS

Ministry of Posts and Telecommunications

6. REMARKS

POSTAL EXECUTIVES' SEMINAR II 郵政幹部セミナーII

1. PERIOD

February 27, 1992 to March 14, 1992 (0.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Directors or high-ranking officials in charge of postal administration in governmental organizations
- 2) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and discussion
 - Present situation and problems faced by Japanese postal service
 - Postal mechanization in Japan
 - International Postal Service (organization, management and operation)
 - Presentation and discussion by participants on competition from private courier services and countermeasures (including new postal services such as EMS, INTELPOST etc.)
- 2) Observation tours
 - Mechanized sorting office, international exchange office, small sized post office and other postal facilities

5. FACILITIES AND INSTITUTIONS

Postal Bureau, Ministry of Posts and Telecommunications

6. REMARKS

No. 105

EXECUTIVE'S SEMINAR ON POSTAL BANKING SERVICES

為替貯金国際幹部セミナー

1. PERIOD

October 10, 1991 to October 26, 1991 (17 days)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) Directors or high-ranking officials of saving organizations (National or Government Savings Bank or Postal Savings) or Postal Money Order and Postal Giro Services
- 2) A sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Outline of the Postal Banking Services
 - Personnel Management in the Postal Banking Services
 - Computerization of the Postal Banking Services
 - Management of the Postal Banking Services
 - Investment of the Postal Savings funds
 - Promotion and Publicity Activities of the Postal Banking Services
- 2) Observations
 - Postal Personnel Training Institute
 - Postal Savings Business Center
 - Post Office
- 3) Study Tour to Kyoto, Nara area
- 4) Discussion
 - "The role of National Savings Institutions and their problems"

5. FACILITIES AND INSTITUTIONS

International Service Division, Postal Savings Bureau, Ministry of Posts and Telecommunications

6. REMARKS

INTERNATIONAL TELECOMMUNICATION SERVICES
(ADMINISTRATION AND COMMERCIAL) II 國際通信業務管理 II

1. PERIOD

May 14, 1991 to July 19, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Presently engaged in traffic and commercial work of international telegraph or telephone services
- 3) Occupational experience of more than 5 years in the field of international telecommunication services
- 4) Good working knowledge of English
- 5) Under forty five (45) years of age

4. DESCRIPTION OF TRAINING

1) Lectures

a) Management

- Corporate Planning
- Traffic Demand Forecast
- Tariff
- International Accounting
- Billing & Collection
- Marketing and Sales Activities
- Network Planning
- Network Management
- International Relations
- International Organizations Activities (ITU, APR)
- Personnel Management
- Human Resources Development
- Effective Education Method
- Business Computerization

b) System & Technologies

- KDD's Telecom Facilities
- Fundamentals of Computers
- Switching Technologies
- Transmission Technologies (Satellite/Submarine Cable)
- Outline of KDD's Submarine Cable Plan
- International Satellite Organizations (INTELSAT/INMARSAT)
- Outline of ISDN
- Trends in New Technologies

c) Service & Operation

- Telephone
- Telex & Telegraph
- Leased Circuit
- VENUS (Data Service)
- AUTOMEX & Dedicated System
- TV Conference

2) Field Practice

Field Practice will be conducted at relevant KDD field offices

3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Kokusai Denshin Denwa Co., Ltd. (KDD)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

January 14, 1992 to March 20, 1992 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) University graduates or equivalent, specializing in telecommunications and or electrical engineering
- 2) Under 45 years of age
- 3) Good working knowledge of English
- 4) Basic knowledge of telephone switching technology, and to be currently engaged in or expected to be engaged in the field of establishment and maintenance of international telephone switching network

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - International Telephone Service Operation of KDD
 - Planning of Switching System
 - International Telephone Switching System Planning
 - Telephone Networking
 - Numbering Plan
 - Signalling Systems
 - Network Planning
 - Network Management
 - ISDN
 - Switching System
 - Electronic Switching
 - Digital Switching
 - Digital Transmission Systems
 - PCM Communication
 - Digital Multiplex Terminal
 - Digital Synchronous Terminal
 - Computer Technology
 - Fundamentals of Computers
 - Computer Programming
 - System Application
 - XE-20 Digital Switching System (Hardware & Software)
- 2) Field practice
 - Field practice will be conducted at relevant KDD field offices.
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) KDD Engineering & Consulting (KEC), Kokusai Denshin Denwa Co., Ltd. (KDD)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

September 3, 1991 to November 1, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) be university graduates specializing in telecommunications and/or electrical engineering or those who have fully equivalent technical knowledge and experiences in this field
- 2) have basic knowledge on computer hardware, software and be currently engaged in or expected to be engaged in the planning or the policy making of international data communications engineering,
- 3) Under 40 years of age
- 4) Have a sufficient command of spoken and written English

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Introduction to Data Communications
 - Data Transmission
 - Data Switching
 - International Data Communications Technologies
 - Data Communications Systems
 - New Communications Services
 - Current Status of Data Communications
- 2) Field practice
Field practice will be conducted at relevant KDD field offices
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) KDD Engineering & Consulting (KEC), Kokusai Denshin Denwa Co., Ltd. (KDD)
- 2) Ministry of Posts & Telecommunications
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

DATA COMMUNICATION ENGINEERING データ通信技術

1. PERIOD

January 16, 1992 to March 6, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Working for data communication services, such as in digital switching, digital transmission or digital processing
- 2) University graduates or equivalent
- 3) Have a sufficient command of spoken and written English
- 4) Under 40 years of age

4. DESCRIPTION OF TRAINING

1) Lectures

- Basic and Theoretical Technology for Data Communication Systems of Domestic Services.
The basic concept of a data communication system consisting of information network, data transmission, transmission control procedures and computer technology will be explained.
- Digital Data Switching Systems
The switching process, and the hardware and software of the D-50 system will be explained. This will include an outline of the various digital data switching systems in the world. Maintenance philosophy will be briefly presented.

2) Practical studies

Participants will conduct practical exercises, using the D-50 system installed at NTT's training school, to increase knowledge acquired from lectures.

3) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Central Training Institute (CTI), Nippon Telegraph and Telephone Corporation (NTT)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

May 22, 1991 to August 2, 1991 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) University graduates or equivalent majored in telecommunication or electrical engineering
- 2) Working for telecommunication administrations or common career organizations except broadcasting stations
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - a) Fundamental Knowledge of Digital Transmission
 - Basic of Digital Transmission
 - Digital Microwave Communication Technique
 - Optical Fiber Transmission
 - Digital Network System
 - b) Radio Communication System
 - Satellite Communication System
 - Rural Telecommunications
 - Mobile Communication System
 - TV Transmission System
 - c) Microwave Communication Power Plant
 - d) Practical Study
 - Transmission Standards
 - Microwave Relay System Design
 - e) Administration Techniques
 - Economic Studies and Comparisons
 - Planning and Plant Engineering
 - f) Practical Exercise
 - Optical Fiber Transmission
 - System, Microwave Communication System, Mobile
 - Communication System, TV Transmission System
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Nippon Telegraph and Telephone Corporation (NTT)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

All participants are requested to submit a brief report written in English on the present situation of telecommunications, its future programs and its problems in applicants' country.

1. PERIOD

May 13, 1991 to July 26, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) University graduates specializing in telecommunications or electric/electronic engineering
- 3) Fundamental knowledge of microwave engineering such as microwave propagation, microwave elements and microwave communication system
- 4) Experience in the field of INTELSAT satellite communications service
- 5) Engaged in the field of satellite communication service
- 6) Good working knowledge of English
- 7) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Outline of Microwave Communication Technology
 - INTELSAT System
 - Satellite Communication System
 - Facilities of Satellite Earth Station
 - Operation and Maintenance of Satellite Earth Station
- 2) Observation tours
 - Earth station system configuration
 - Earth station facilities

5. FACILITIES AND INSTITUTIONS

- 1) KDD Engineering & Consulting (KEC), Kokusai Denshin Denwa Co., Ltd. (KDD)
- 2) Ministry of Posts & Telecommunications
- 3) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 112

SATELLITE COMMUNICATION ENGINEERING (PLANNING AND MANAGEMENT)

衛星通信技術（計画管理）

1. PERIOD

September 2, 1991 to November 1, 1991 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Be university graduates who majored in telecommunications or electric/electronics engineering, or have completed the Group Training Course in the Satellite Communication Engineering (Regular) conducted by the Government of Japan, and have had experience of not less than three years in the field of INTELSAT satellite communication service since then,
- 2) Have a sufficient command of spoken and written English,
- 3) Be under forty-five (45) years of age,

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - INTELSAT System
 - Satellite Communication and Radio Wave Transmission
 - INTELSAT Communication System and Related Technology
 - Facilities of Satellite Earth Station
 - Maritime Satellite Communication
 - Maintenance Management
 - Field Practice
- 2) Observation tours
 - KDD Facilities
 - NTT Television Relay Center
 - Mitsubishi Electric Kamakura Plant

5. FACILITIES AND INSTITUTIONS

- 1) Kokusai Denshin Denwa Co., Ltd. (KDD)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 113

OPTICAL FIBER CABLE TRANSMISSION TECHNOLOGY

光ファイバーケーブル伝送技術

1. PERIOD

February 11, 1992 to March 25, 1992 (1.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) University graduates or equivalent
- 2) Sufficient practical experience on their own transmission system
- 3) Under 40 years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Fundamental of transmission technology
 - Optical fiber cable
 - Optical fiber transmission system
 - Latest optical fiber transmission systems
 - Field practice
 - Measuring technic
- 2) Observation tours
 - Kansai observation tour

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Corporation

6. REMARKS

1. PERIOD

October 23, 1991 to December 20, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Seventeen (17)

3. QUALIFICATIONS

- 1) University graduates or equivalent majored in telecommunication or electrical engineering
- 2) Working for telecommunication administrations or common carrier organizations
- 3) Under 40 years of age
- 4) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Telecommunication network design
This study deals with design techniques required to establish a nation-wide telecommunication network.
 - Outlines of various facilities
Brief explanations of various facilities making up the network are given.
 - Expansion planning techniques
Yearly and long term expansion planning techniques, including practical exercises, are dealt with.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Central Training Institute (CTI), Nippon Telegraph and Telephone Corporation (NTT)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

August 15, 1991 to November 1, 1991 (2.5 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Thirteen (13)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) University graduates or equivalent
- 3) Working for telecommunication administrations or common carrier organizations
- 4) Sufficient practical experience on telephone outside plant system
- 5) Under 40 years of age
- 6) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Digital Line Transmission System Engineering
 - Design Engineering
 - Maintenance Engineering
 - Construction Engineering
 - Method of Measurement
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Central Training Institute (CTI), Nippon Telegraph and Telephone Corporation (NTT)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

1. PERIOD

August 13, 1991 to December 20, 1991 (4 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be presently working for telecommunication or common carrier organizations
- 2) be university graduates or those who have equivalent technical knowledge
- 3) have a sufficient practical experience on their own telephone outside plant systems
- 4) be under 35 years of age and have over 3 years' of practical experience
- 5) be in good health, both physically and mentally, to undergo the training. Pregnancy is regarded as a disqualifying condition for the participation in the training
- 6) have a sufficient command of spoken and written English.

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Basic knowledge on outline equipment (Basic designing of communication equipment, local line equipment, Civil engineering equipment, Network system, Transmission and wireless)
- 1) Lectures and practical training
 - Basic knowledge on outside equipment (Basic designing of communication equipment, local line equipment, Civil engineering equipment, Network system, Transmission and wireless)
 - Construction (Aerial cable, Underground cable, Optical fiber cable)
 - Maintenance engineering (Outside equipment, Gas-filled cable, Aerial cable, Plant record management, witnessing outside activities)
 - Design engineering (Local line, Civil engineering, Optical line)
 - Construction and maintenance of communication equipment and devices (Service order work, sales and rates, general trouble shooting)
 - Basic knowledge in inside plant (exchange equipment, centralized trouble attendance business)
 - Safety and quality control (Danger predicting activities, ASK activities)
- 2) Study trip

5. FACILITIES AND INSTITUTIONS

Nippon Telegraph and Telephone Corporation (NTT), Kitakyushu Branch

6. REMARKS

TELECOMMUNICATIONS EXECUTIVES' SEMINAR II 電気通信幹部セミナーII

1. PERIOD

March 11, 1992 to March 28, 1992 (0.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) Directors general or equivalent officials responsible for management or administration of telecommunications in government or operational organizations
- 3) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Domestic Telecommunications Business Management in Japan
 - International Telecommunications Business in Japan
 - Present Situation of Japan's International Cooperation in Telecommunications
 - Role of Telecommunications Consultant
- 2) Discussion
 - Presentation and Discussion of Country Reports
 - Discussion on Human Resources Development
- 3) Observation tours

5. FACILITIES AND INSTITUTIONS

Ministry of Posts and Telecommunications

6. REMARKS

DIGITAL SWITCHING ENGINEERING II デジタル交換基礎技術Ⅱ

1. PERIOD

June 18, 1991 to August 10, 1991

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eleven (11)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) University graduates or equivalent
- 3) Working for telecommunication administrations or common career organizations
- 4) Sufficient practical experience on their own switching systems
- 5) Under 40 years of age
- 6) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Digital Switching System (D-70)
 - Practical Exercise (D-70)
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Central Training Institute (CTI), Nippon Telegraph and Telephone Corporation (NTT)
- 2) Tokyo International Centre (Htagaya), JICA

6. REMARKS

DIGITAL SWITCHING SYSTEMS ENGINEERING デジタル交換システム技術

1. PERIOD

January 13, 1992 to March 14, 1992 (2 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Fifteen (15)

3. QUALIFICATIONS

- 1) University graduates or equivalent majored in telecommunication or electrical engineering.
- 2) Working for telecommunication administrations or common career organizations at least five (5) years.
- 3) Sufficient practical experience on their own switching systems
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION ON TRAINING

- 1) Lectures and practical training
 - Basic and theoretical technology for Telecommunications
The basic concept of a digital switching system, which consists of routing, numbering, signaling, charging plan and an outline of traffic theory, will be explained. This information will give the participants background data on fundamental functions regarding operations of a digital switching system composing a part of a telephone network.
 - Electronic switching systems (ESS)
 - a) Switching process, hardware and software configuration and signaling of the D70 ESS (Digital) will be explained.
 - b) A series of procedures from traffic forecasting to equipment estimation of the D70 System will be explained, including a case study. Maintenance philosophy will be briefly presented.
 - Practical studies
Participants will conduct practical exercise, using D70 installed at NTT's Central Training Institute, to increase the knowledge acquired during lectures as well as emphasizing practical applications of this data.
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Central Training Institute (CTI), Nippon Telegraph and Telephone Corporation (NTT)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 120

DIGITAL TRANSMISSION SYSTEMS ENGINEERING デジタル伝送技術

1. PERIOD

September 17, 1991 to December 6, 1991 (3 months)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Qualified in their respective fields
- 2) University or college graduates or equivalent who majored in telecommunication or electrical engineering
- 3) Working for telecommunication administrations or common carrier organization at least for five (5) years
- 4) Under 40 years of age
- 5) Good working knowledge of English

4. DESCRIPTION OF TRAINING

- 1) Lectures and practical training
 - Digital Line Transmission System
 - Microwave Communication System
 - Practical Exercise
 - Administration Techniques
 - Practical Study
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

- 1) Central Training Institute (CTI), Nippon Telegraph and Telephone Corporation (NTT)
- 2) Tokyo International Centre (Hatagaya), JICA

6. REMARKS

No. 121

INTERNATIONAL ISDN ENGINEERING 国際ISDN技術

1. PERIOD

January 15, 1992 to February 21, 1992 (1 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Twelve (12)

3. QUALIFICATIONS

- 1) Be engineers who engaged in the field of International Telecommunications
- 2) Have fundamental knowledge of Digital Communications (such as Digital Transmission Principles of PCM, Multiplexing, Synchronization, etc. and Digital Switching)
- 3) Have a sufficient command of spoken English and written English
- 4) Be in good health, both physically and mentally to undergo the training

4. DESCRIPTION OF TRAINING

- 1) Overview of ISDN
- 2) Basic Technologies of ISDN
 - a) Review of digital technologies
 - b) Basic Technologies
 - Services in ISDN
 - OSI
 - User-Network interface
 - No. 7 Signaling System
 - Interworking
 - Network Management
 - c) ISDN System
 - Digital Transmission System
 - Digital Switching System
 - Terminal Equipment
- 3) Basic items for ISDN introduction plan

5. FACILITIES AND INSTITUTIONS

Kokusai Denshin Denwa Co., Ltd. (KDD)

6. REMARKS

No. 122

RURAL TELECOMMUNICATION ENGINEERING ルーラル通信技術

1. PERIOD

February 11, 1992 to March 20, 1992 (1.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Ten (10)

3. QUALIFICATIONS

- 1) be university graduates specialized in radiocommunications, and preferably have an introductory background in telephone traffic engineering, or those who have equivalent technical knowledge in this field;
- 2) be in charge of network planning or so scheduled;
- 3) have a sufficient command of spoken and written English;
- 4) be under 45 years of age;

4. DESCRIPTION OF TRAINING

- 1) Introduction of application technology for rural telecommunication
- 2) International trends of rural telecommunication
- 3) International regulation of radio transmission
- 4) Rural telecommunication technology (terrestrial radio system, satellite communication and others)

5. FACILITIES AND INSTITUTIONS

World Communications Development Organization (WORC-JAPAN)

6. REMARKS

No. 123

CBT COURSEWARE DEVELOPMENT TECHNOLOGY FOR
TELECOMMUNICATION 電気通信 C A I 教材作成技術

1. PERIOD

October 29, 1990 to December 5, 1991 (1.5 month)

2. NUMBER OF PARTICIPANTS TO BE RECEIVED

Eight (8)

3. QUALIFICATIONS

- 1) be university graduates or the equivalent,
- 2) have sufficient practical experience in their telecommunications training center, and hopefully be familiar with the personal computer,
- 3) be under forty (40) years of age

4. DESCRIPTION OF TRAINING

- 1) Lectures
 - Realize a basic concept of learning theory, then apply it to the CBT courseware development
 - Understand and explain the procedure of each phase in the courseware development
 - Implement the job analysis, the course design, development and evaluation
 - Explain briefly the CBT strategy carried out with ITU
- 2) Observation tours

5. FACILITIES AND INSTITUTIONS

Japan Telecommunications Engineering and Consulting Service (JTEC)

6. REMARKS