

CONSTRUCTION MANAGEMENT IN CIVIL WORKS WITH MECHANIZATION 建設施工監理		9 participants JO400708	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
This course is designed with the aim of developing human resources for the supervision and control of the road, bridge and tunnel construction project mainly managed by construction machineries. Through the training program, participants are expected to: (1) acquire comprehensive knowledge and techniques about construction systems with mechanization, including environmental protection and construction management, and (2) be able to control and supervise construction works with mechanization, efficiently by utilizing the above-mentioned knowledge and techniques	(1) university/college graduate in civil engineering or equivalent (2) senior administrative civil engineers in central or regional government actually supervising construction project of road, bridge and tunnel. (3) under 40 years of age (4) more than five years experience in civil engineering works (5) have an adequate experience in using computers		
	DURATION		
COURSE CONTENTS	Aug. 2, 2004 ~ Nov. 6, 2004		
This course consists of lectures and observations. The main themes are: (1) general information on public works in Japan and overseas construction (2) fundamental studies (a) geotechnical engineering, concrete, asphalt, steel and new materials, introduction of construction machinery, etc. (3) execution planning and management (a) work planning, process planning, introduction to construction management, machinery control, safety control, counter measures for environmental protection, cost estimation, geotechnical analysis, etc. (4) construction techniques (a) earthwork, concrete work, shield work, paving work, improvement work, foundation work, tunnel construction, bridge construction (steel and concrete), road maintenance, dam construction, Sabo etc.	LANGUAGE	COOPERATION PERIOD	
	ENGLISH	2001 ~ 2005	
	TRAINING INSTITUTIONS		
	JAPAN CONSTRUCTION MECHANIZATION ASSOCIATION		
	JICA CENTER		
	Osaka International Center		
	REMARKS		

BUILDING ADMINISTRATION AND TECHNOLOGY 建築行政		12 participants JO400711	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
To acquire (1) the latest construction technologies in Japan, together with the regulatory system that support such technologies, (2) a cross-cultural perspective of building administration and construction technologies through presentation, and (3) the knowledge necessary to establish such new building administration as performance-based building code, energy efficiency standardization, etc.	(1) be officials and/or researchers of a government or related organization expected to have a leading position in building administration and technology, (2) be university graduates or equivalents with occupational experience of more than five (5) years, (3) be under forty-five (45) years of age		
	DURATION		
COURSE CONTENTS	May. 11, 2004 ~ Jun. 26, 2004		
In this course, the following major subjects will be covered through lectures, discussions, practices and observation trips. (1) Introduction: Outline of the Course, Construction and Housing Situation in Japan (2) Building Techniques and Housing/Building Administration (lectures and study tours): Outline of Building Administration, Countermeasures against Earthquakes, Fire Prevention and Evacuation Safety, Energy Conservation in Housing and Buildings, Environment Symbiosis, Barrier-Free Issues, Development of Latest Technology, Quality Control, Reconstruction Technology, International Cooperation (3) Practice and Discussion: Country Report Presentation, Study Report (4) Observation Trip: Western Japan, Home Stay Program at Chiba New Town	LANGUAGE	COOPERATION PERIOD	
	English	2001 ~ 2005	
	TRAINING INSTITUTIONS		
	HOUSING BUREAU, MLIT		
	JICA CENTER		
	Tokyo International Center		
	REMARKS		

PLANNING AND MANAGEMENT OF NATIONAL MAPPING AND SURVEYING 国家測量事業計画・管理		8 participants JO400692	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
This course is designed for technical managers working at National Surveying and Mapping Organizations (NMO) who envision effective and efficient management approaches of national survey and mapping projects. The participants will learn Japanese systems and approaches related to national surveying and mapping projects, and gain deep insight for better management of NMO. The course also provides a broad opportunity to upgrade knowledge and skills of contemporary technologies such as GPS and GIS.	(1) Be employed by national surveying and mapping organizations as technical official in managerial levels (Head or Deputy Head of a division) for at least 7 years; (2) Be university graduates or equivalents; and (3) Be 29 to 44 years of age.		
	DURATION		
COURSE CONTENTS	Sep. 28, 2004 ~ Jul. 24, 2005		
The training course will be given in the form of lectures, workshops, and practices, and include the following subjects: -Computer and presentation skills -Environment surrounding national surveying and mapping organizations -Institutional framework of national mapping and surveying -Planning and management of national mapping and surveying projects -Contemporary technologies such as GPS, GIS, digital photogrammetry, and remote sensing -Individual technical study -Study trips	LANGUAGE	COOPERATION PERIOD	
	English	2000 ~ 2004	
	TRAINING INSTITUTIONS		
	GEOGRAPHICAL SURVEY INSTITUTE, MLIT		
	JICA CENTER		
	Tsukuba International Center		
	REMARKS		
	Intensive Japanese language course: 50 hours GSI: http://www.gsi.go.jp/ENGLISH/		

TECHNOLOGY FOR PREVENTION OF PREMATURE DETERIORATION OF CONCRETE STRUCTURES コンクリート構造物耐久性向上技術		8 participants J0403465	
OVERALL GOAL / PURPOSE	The purpose of this course is to provide knowledge and information on prevention of premature deterioration of concrete structures in order to disseminate the technology in this field and to improve the durability of concrete structures in participating countries.	QUALIFICATION OF APPLICANT	
		(1) technical officials in charge of construction of concrete structures or engineers who are engaged in research on concrete materials (2) have more than 5 years experience (3) between 27 and 40 years of age (4) university graduates	
		DURATION	
		Jan. 17, 2005 ~ Jun. 5, 2005	
COURSE CONTENTS	(1) Mutual recognition of issues and conditions surrounding premature deterioration of reinforced concrete structures in Participants' countries will be accomplished through presentation of Country Reports. (2) Lectures and practical studies (experimentation) will be conducted regarding durability, alkali-aggregate reaction, and diagnostic methodologies of concrete structures. Instruction will be given by specialists from GBRC and other external organizations. (3) Participants will gain an understanding of conditions in Japan, inclusive of facilities and equipment, through observation and study at construction sites. (4) Drawing up of an action plan to combat premature deterioration of concrete structures in each country. (Final Report)	LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
		GENERAL BUILDING RESEARCH CORPORATION	
		JICA CENTER	
		Osaka International Center	
		REMARKS	

SEMINAR ON IMPROVEMENT OF HOUSING AND LIVING ENVIRONMENTS 住宅・住環境改善		13 participants J0400584	
OVERALL GOAL / PURPOSE	Through the course program, participants are expected to: (1) be able to explain the Japanese system of housing and living environment projects, and practical measures to solve the problems, (2) share and understand the current problems of each participating country and seek the feasible solutions through the exchange of information among the participants, and (3) be able to explain the development programs related to housing and living environment implemented in Japan.	QUALIFICATION OF APPLICANT	
		(1) have experience in implementing various development projects on housing and living environment at the central or local government, or related orgs, and expected to play a leading role in the field, (2) be university graduates or the equivalents, (3) be between 30 and 45 years of age.	
		DURATION	
		Oct. 24, 2004 ~ Dec. 4, 2004	
COURSE CONTENTS	In this course, the following major subjects will be covered through lectures, discussions, practices and observation trips. (1) Various systems related to housing in Japan (2) Various systems related to town planning in Japan (3) Housing problems in developing countries (4) Practice and discussion (Country Report presentation and discussion, Practice of the Project Cycle Management method) (5) Field study	LANGUAGE	COOPERATION PERIOD
		English	1997 ~ 2004
		TRAINING INSTITUTIONS	
		HOUSING BUREAU, MLIT	
		JICA CENTER	
		Tokyo International Center	
		REMARKS	
		This course was conducted alternately with "Seminar on Improvement of Housing Policy II" every other year and has been jointly held from JFY 2003.	

Global Mapping: Contribution to Global Mapping Development by GIS 地球地図作成技術：地球地図整備に貢献することを目指した地理情報システム		8 participants J0400874	
OVERALL GOAL / PURPOSE	The course is designed to give a better understandings of the importance of the Global Mapping project and its application of the Global Map; 1. acquire the skill and the procedure to develop Global Map data, 2. understand the importance of Global Mapping in policy making especially to cope with global environmental problems, 3. enhance the knowledge of the latest technologies in related fields, 4. be able to fully coordinate the Global Mapping project in their countries, 5. acquire the technique of Global Map data revision.	QUALIFICATION OF APPLICANT	
		(1) A member of National Mapping Organization (2) University graduate or equivalent (3) Between 28 to 40 years of age (4) Be working in or be going to work in the Global Mapping project in their countries (5) More than three years experience in the field of GIS, Digital Mapping or Remote Sensing	
		DURATION	
		Jul. 20, 2004 ~ Oct. 10, 2004	
COURSE CONTENTS	The course consists of lectures, practices, discussions, observations and workshops. Main subjects of the curriculum are as follows: (1) Global Mapping Project, (2) Geographical Information System (GIS), (3) Remote Sensing Technology (RS), (4) ISO Standardization, (5) Global Map Specifications, (6) Practice for the development of Global Map, (7) Global Warming, (8) Global Meteorology, (9) Acid Rain, (10) Environmental Law, (11) Environment and Agriculture, (12) Digital Data Set Format for Global Map, (13) Country/Technical report presentation Participants will also create sample Global Map and study utilization of Global Map with the assistance of a technical adviser.	LANGUAGE	COOPERATION PERIOD
		English	2004 ~ 2008
		TRAINING INSTITUTIONS	
		GEOGRAPHICAL SURVEY INSTITUTE, MLIT	
		JICA CENTER	
		Tsukuba International Center	
		REMARKS	
		GSI: http://www.gsi.go.jp/ENGLISH/ Global Mapping Project: http://www.iscgm.org/	

COMPREHENSIVE CITY PLANNING 都市計画総合		10 participants J0400689	
OVERALL GOAL / PURPOSE	The purpose of this course is to introduce city planners who are directly engaged in city planning to fundamental knowledge and technique of city planning experienced in Japan. The participants will also be suggested to find a way how to deal with the problems of their own towns and cities by exchanging their views and experiences on the occasion of presentation of the Country Report prepared by participants.	QUALIFICATION OF APPLICANT	
		(1) be university graduates or the equivalents with the occupational experience of more than three (3) years, (2) be administrative officers who are currently engaged in city planning, (3) be under forty (40) years of age in principle	
		DURATION	
		Aug. 24, 2004 ~ Oct. 23, 2004	
COURSE CONTENTS	In this course, the emphasis is put on introduction of Japanese systems and situations as follows: (1) city planning methods and urban development projects (2) planning and provision of urban transport (3) present housing situation (4) environmental aspects of urban development and urban transport (5) kukaku-seiri (Japanese method of urban land readjustment) applicable both to built-up and suburban areas (6) social, economic and institutional aspects of city planning	LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
		CITY AND REGIONAL DEVELOPMENT BUREAU, MLIT	
		JICA CENTER	
		Tokyo International Center	
		REMARKS	

URBAN DEVELOPMENT(FOCUSED ON LAND READJUSTMENT MEASURES) 都市整備		16 participants J0400325	
OVERALL GOAL / PURPOSE	The purpose of the course is to introduce participants through lectures and observations to land readjustment methods (KUKAKU-SEIRI) and projects carried out in Japan with specific objectives and their background; at the same time, to provide participants with opportunities to exchange their views and experiences on urban development, so as to contribute to the acquisition of practical knowledge for their purposes.	QUALIFICATION OF APPLICANT	
		(1) be university graduates or equivalents with occupational experience of more than 3 years, (2) be presently engaged in planning and/or implementation of urban development and redevelopment, (3) be under forty (40) have a sufficient command of spoken and written English	
		DURATION	
		May. 11, 2004 ~ Jul. 3, 2004	
COURSE CONTENTS	In this course, the following major subjects will be covered through lectures, discussions, practices and observation trips. (1) Japanese systems and methods of kukaku-seiri (Japanese method of urban land readjustment) applicable both to built-up and suburban areas (2) Japanese systems and methods of new town development (3) Japanese systems and methods of urban renewal (4) social background and problems which lead to the above-mentioned urban development activities (5) policies and methods of urban development in each participating country	LANGUAGE	COOPERATION PERIOD
		English	1986 ~ 2005
		TRAINING INSTITUTIONS	
		CITY AND REGIONAL DEVELOPMENT BUREAU, MLIT	
		JICA CENTER	
		Tokyo International Center	
		REMARKS	

URBAN GREENERY AND PARK ADMINISTRATION II 都市緑化行政II		6 participants J0400801	
OVERALL GOAL / PURPOSE	The overall aim of the course is to upgrade the technical abilities of the leading governmental administrators and thus enabling them to contribute to the improvement of the living environment in developing countries. Through the training programme, participants are expected to: 1) acquire knowledge of the functions of urban greenery and policies to promote urban greenery, 2) acquire knowledge of techniques, planning, design, construction and maintenance, 3) acquire knowledge of systems for preserving green spaces. 4) make an Action Plan, using the acquired knowledge.	QUALIFICATION OF APPLICANT	
		(1) supervisory administrators responsible for over-all urban greenery and park development (2) practical experience of at least five years (3) under 40 years of age	
		DURATION	
		Aug. 23, 2004 ~ Nov. 5, 2004	
COURSE CONTENTS	In this course, the emphasis is put on introduction of Japanese experience and theories of greenery in city-planning and park administrations. The main themes are (1) policies of urban greenery and maintenance (2) Japanese traditional techniques of gardening (3) maintenance of parks and recreation facilities (4) practical training of planning and design of a park (5) discussions (6) Action Plan making	LANGUAGE	COOPERATION PERIOD
		English	2003 ~ 2007
		TRAINING INSTITUTIONS	
		OSAKA CITY GOVERNMENT	
		JICA CENTER	
		Osaka International Center	
		REMARKS	

NATIONAL AND REGIONAL DEVELOPMENT POLICY 国土・地域開発政策		10 participants J0400643	
OVERALL GOAL / PURPOSE	(1) To acquire the knowledge of planning, policy formulation, and implementation of national land development and regional development projects in Japan (2) To obtain the practical knowledge for the planning and implementation of national / regional development policies	QUALIFICATION OF APPLICANT	
		(1) Currently engaged in the planning or implementation of national or regional development projects or policies. (2) University graduates or the equivalents with more than 3 years of occupational experience. (3) Under 45 years of age.	
		DURATION	
		Sep. 7, 2004 ~ Oct. 23, 2004	
COURSE CONTENTS	(1) Theory of regional development (2) Development of national land infrastructure and environmental management (3) Industrial promotion (4) Social development (5) Case studies of regional development plans in developing countries (6) Observation and Case Study (7) Report formulation and presentation	LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
		Ministry of Land, Infrastructure and Transport	
		JICA CENTER	
		Yokohama International Center	
		REMARKS	

EXECUTIVES' SEMINAR ON PUBLIC WORKS AND MANAGEMENT 国土技術マネジメント幹部セミナー		10 participants J0400768	
Target Region : Asia			
OVERALL GOAL / PURPOSE	This course is intended for executive engineers in leading posts to plan and promote public works research and development in Asian countries. Its purpose is i) to introduce up-to-date information and technology on public works research and development including the comprehensive infrastructure management to the participants with a view to develop their planning and administration abilities on public works, ii) to promote and strengthen human network among Asian countries through attending the seminar and conference.	QUALIFICATION OF APPLICANT	
		(1) university graduates or equivalents in the field of civil engineering (2) heads or equivalents of national research institutes in the field of infrastructure management, or directors or equivalents responsible for public works departments of central government organs	
		DURATION	
		Oct. 17, 2004 ~ Oct. 30, 2004	
COURSE CONTENTS	This seminar consists of country report presentation, lectures, discussion in the field of public works, field trips, and participation in the conference named "the 13th Conference on Public Works Research and Development in Asia." The featured topic of the course this year is "Management of urban water environment."	LANGUAGE	COOPERATION PERIOD
		English	2003 ~ 2007
		TRAINING INSTITUTIONS	
		National Institute for Land and Infrastructure Management	
		JICA CENTER	
		Tsukuba International Center	
		REMARKS	

PROJECT PLANNING AND MANAGEMENT IN PARTICIPATORY LOCAL SOCIAL DEVELOPMENT 参加型地域社会開発のプロジェクト計画・管理		8 participants J0403489	
OVERALL GOAL / PURPOSE	To gain comprehensive knowledge of the Participatory Approach as effective methodology for social preparation among target local people; acquire the basic framework to analyze the local peoples' capability and mechanisms of resource utilization and management in the context of a local community / social system; obtain comprehensive knowledge and skills of Participatory Local Social Development Planning and management; and be able to revise their present projects through review and analysis from PLSD viewpoints.	QUALIFICATION OF APPLICANT	
		(1) be Counterparts of JICA projects in principle etc. (2) be university graduates or the equivalent, with occupational experience of more than 3 years (3) be between 28 and 45 years old	
		DURATION	
		Sep. 27, 2004 ~ Nov. 15, 2004	
COURSE CONTENTS	<ul style="list-style-type: none"> • Introduction of Participants' Projects • Conceptual Framework and Practical Method for Participatory Local Social Development • Exercise in PLSD Planning as well as Monitoring and Evaluation • Field Trip to PLSD sites • Exercises in PLSD Planning 	LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
		NIFON FUKUSHI UNIVERSITY	
		JICA CENTER	
		Chubu International Center	
		REMARKS	

PARTICIPATORY LOCAL SOCIAL DEVELOPMENT THEORIES AND PRACTICE 参加型地域社会開発の理論と実践		10 participants J0400727	
OVERALL GOAL / PURPOSE	The participants will gain sufficient knowledge of the Participatory Approach as effective methodology for social preparation among target local people, • acquire the basic framework to analyze the local people's capability and resource management mechanisms in the context of a local community / social system, • obtain comprehensible knowledge and skills of Participatory Local Social Development Planning, and can revise their respective present projects through review and analysis from PLSD viewpoints and perspectives.	QUALIFICATION OF APPLICANT	
		1. be local government officers or NGO staff, who are involved either in local social development planning and implementation for rural areas etc.; 2. be university graduates, with occupational experience of more than 3 years; 3. be between 28 and 45 years old	
		DURATION	
		Jan. 31, 2005 ~ Mar. 21, 2005	
COURSE CONTENTS	1. Conceptual Framework and Practical Method for Participatory Local Social Development (PLSD) 2. Sectoral Cases of PLSD Projects in Developing Countries 3. Introduction of Participants' Projects and of Sectoral Cases of PLSD Policy framework and Measures in Japan 4. Field Trip to PLSD sites 5. Exercises in PLSD Village Planning, Monitoring and Education 6. Improvement/ Alternation of Participants' own projects	LANGUAGE	COOPERATION PERIOD
		English	2002 ~ 2006
		TRAINING INSTITUTIONS	
		NIHON FUKUSHI UNIVERSITY	
		JICA CENTER	
		Chubu International Center	
		REMARKS	

INFRASTRUCTURE DEV'T & PLANNING(FOR CIVIL ENGINEER) II 社会資本整備計画II		8 participants J0403530	
OVERALL GOAL / PURPOSE	This course is offered to those who belong to the government or government affiliated organizations of developing countries an opportunity to acquire the contemporary knowledge and techniques concerning the roles of infrastructure, methods and process of survey, analysis, and planning, through lectures, observations and group studies.	QUALIFICATION OF APPLICANT	
		(1) university graduates or those who have equivalent educational qualifications in the field of civil engineering, (2) civil engineers with at least five years' experience in planning infrastructure development (roads, railways, ports, water supply and sewage systems, dams, etc) (3) under 40 years of age	
		DURATION	
		Sep. 6, 2004 ~ Nov. 14, 2004	
COURSE CONTENTS	This course consists of common subjects for all participants and group studies. It covers very broad technical fields; roads, ports, water supply, sewage system, dams, and telecommunication in order for participants to obtain wide knowledge and technique to prepare comprehensive plans for the infrastructure. The main themes are: (1) introduction and social scheme of infrastructure development (2) regional/urban planning (3) highway, transport, telecommunication planning (4) river/port planning (5) case study (group discussion) on infrastructure development plans	LANGUAGE	COOPERATION PERIOD
		English	2001 ~ 2005
		TRAINING INSTITUTIONS	
		Japan Construction Training Center Foundation	
		JICA CENTER	
		Osaka International Center	
		REMARKS	

GENERAL MANAGEMENT FOR REGIONAL DEVELOPMENT AND PLANNING 地域開発計画管理II		7 participants J0400764	
OVERALL GOAL / PURPOSE	1) To understand the Hokkaido comprehensive development designated by the central government. (① Basic objectives and administrative framework ② Measures of promotion and management in the process of the Hokkaido comprehensive development plan) 2) To understand the regional development programmes in Hokkaido (Industrial promotion, Environmental conservation, Public works, etc.) 3) To understand the roles of the central and local government. 4) To evaluate the Hokkaido comprehensive development and consider its applicability in each country	QUALIFICATION OF APPLICANT	
		(1) engaged in the planning or implementation of national or regional development projects and policy (2) have business experience in the field of Regional Development Administration for more than two years, (3) university graduate or equivalent (4) over 25 and under 40 years of age	
		DURATION	
		Sep. 7, 2004 ~ Oct. 30, 2004	
COURSE CONTENTS	Main themes of this course are as follows: (1) How to plan and manage regional development policy through studying several projects in Hokkaido (2) the various methods of planning and promoting local-level projects. (3) the basic knowledge of close relation between development planning and environmental problems. (4) the basic policy and systems for regional development in Hokkaido	LANGUAGE	COOPERATION PERIOD
		English	2003 ~ 2007
		TRAINING INSTITUTIONS	
		HOKKAIDO BUREAU, MLIT	
		JICA CENTER	
		Hokkaido International Center, Sapporo	
		REMARKS	

SEMINAR ON PUBLIC WORKS ADMINISTRATION IN REGIONAL GOVERNMENT II

地域土木行政セミナーII

5 participants J0403512

OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT	
This course is designed to introduce the administrative and legal systems concerning public works in Japan, the history of development in Hokkaido, planning and construction flow of civil engineering, and techniques for environment considerations, so that the participants will be better able to contribute to national land development in their countries.	Applicants should (1) be senior technical officers in charge of public works administration in central government or in government's affiliated organization; (2) have more than 5 years of practical experience; (3) be under 40 years of age	
COURSE CONTENTS	DURATION	
	Sep. 7, 2004 ~ Oct. 23, 2004	
The following major subjects will be covered in the course: Lecture : (a)current situation of public works administration in Japan (b)regional development planning (c)development history of infrastructure in Hokkaido (d)civil engineering projects, such as road, river, dam, airport, harbor and erosion control (e)processes of granting regional request to the public works, etc Practical exercise : (a)planning of the project and its budget integration (b)consulting work , and Observation tours : (a)civil engineering projects, such as road, river, dam, airport, harbor and erosion control in Hokkaido and other part of Japan.	LANGUAGE	COOPERATION PERIOD
	English	2001 ~ 2005
	TRAINING INSTITUTIONS	
	DEPARTMENT OF PUBLIC WORKS, HOKKAIDO GOVERNMENT	
	JICA CENTER	
	Hokkaido International Center, Sapporo	
	REMARKS	

Pollution Control

〈公害対策〉

SEMINAR ON POLICY IMPLEMENTATION AND ALTERNATIVE TECHNOLOGIES CONCERNING OZONE LAYER PROTECTION オゾン層保護対策・代替技術セミナー	
18 participants J040698	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT
This seminar was designed to provide participants with legislative, technical and scientific information concerning the ozone depleting substances (ODSs) that will enable them to implement substantial measures pursuant to the international framework, "Vienna Convention for the Protection of the Ozone Layer" and "Montreal Protocol on Substances that Deplete the Ozone Layer".	(1) be senior-class administrative officers within the machinery of the government who are in charge of ozone layer protection or in those of the equivalent post,* (2) be between 25-45 years of age, (3) be university graduates or possess equivalent qualifications in this field, (4) have a sufficient command of spoken and written English, *Researchers are NOT the target of this seminar.
COURSE CONTENTS	DURATION
The curriculum consists of the following three parts. (1) lectures (a) overview of ozone layer science (b) environmental impact of increased UV-B radiation (c) outline of the Vienna Convention and the Montreal Protocol, and legislative and institutional arrangements in Japan (d) overview of technologies to reduce ozone layer depleting substances (e) state of development on alternative technologies to reduce consumption of ozone layer depleting substances (f) monitoring of ozone layer (2) field visit (3) presentation and discussions (a) presentation of Country Reports (b) group discussions on the promotion of ozone layer protection in the participating countries	Jan. 18, 2005 ~ Mar. 6, 2005
	LANGUAGE
	COOPERATION PERIOD
	ENGLISH 2000 ~ 2004
	TRAINING INSTITUTIONS
	Manufacturing Industries Bureau, METI
	JICA CENTER
	Tokyo International Center
	REMARKS
	(1) Subject to the countries ratified the Montreal Protocol (2) Preferable national machinery for each country to be stated in the G.I.

AIR POLLUTION SOURCE MONITORING MANAGEMENT 大気汚染源モニタリング管理	
8 participants J040660	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT
The overall goal of the training course is to develop the capacity in environmental management promoting comprehensive air pollution control, and to upgrade the technical knowledge of the air pollution source monitoring, for the officials who are currently engaged in air pollution control in local or central government. The purpose of the course is (1) Understanding basic knowledge on air pollution control, (2) Acquiring the knowledge of administrative measures for air pollution control, and others	(1) technical officials directly engaged in air pollution control administration, having more than 3 years of experience (2) university graduates in chemistry, chemical engineering, sanitary engineering environmental engineering, environmental science or biology (3) 45 years of age or younger
COURSE CONTENTS	DURATION
In the course, the following subjects will be covered through lectures, practices and observation trips. (1) basic knowledge of environmental measures necessary for air pollution control (2) air protection administration (3) pollution control measures for air pollution sources (4) monitoring methodology of ambient air quality (5) analysis and evaluation method of monitoring data (6) monitoring methodologies of air pollution sources	Aug. 16, 2004 ~ Dec. 1, 2004
	LANGUAGE
	COOPERATION PERIOD
	English 2000 ~ 2004
	TRAINING INSTITUTIONS
	KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION
	JICA CENTER
	Kyusyu International Center
	REMARKS

Air Pollution Control II 大気汚染対策II	
8 participants J040854	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT
1. fundamental knowledge of legislative systems and of the relation between industrial development and pollution with reference to Japanese cases, 2. measurement techniques for gaseous substances and particle substances related to air pollution, 3. emission source control techniques for polluting substances such as sulfur oxides, nitrogen oxides, soot and dust, 4. application techniques for dispersion models required to prepare air pollution prevention plans, and 5. management techniques for environmental control such as comprehensive and strategic enforcement of anti-pollution plans.	1) be nominated by their government 2) be university graduate or the equivalent 3) be administrative engineers who have at least 5 years experience in the field of air pollution prevention. 4) be between 25 and 45 years-old 5) not serving in the military
COURSE CONTENTS	DURATION
1: General 2: Overview of Environmental Problems: Air Pollution 3: Overview of Environmental Conservation Measures 4: Environmental Conservation: Efforts in industry 5: Planning of Air Pollution Control 6: Laws and Regulations 7: Dust: Measurement and Control 8: Fuel and Combustion 9: Desulfurization and Denitrification Techniques 10: Odor Pollution Control 11: Measurement of NOx and Sox 12: Stack GAs Diffusion 13: Atmospheric Diffusion 14: Data Processing for Air Pollution 15: Continuous Monitoring System 16: Hazardous Substance 17: Acid Rain 18: Automobile Pollution Control 19: Environmental Impact Assessment 20: Case Study etc...	Aug. 23, 2004 ~ Dec. 5, 2004
	LANGUAGE
	COOPERATION PERIOD
	English 2004 ~ 2008
	TRAINING INSTITUTIONS
	GLOBAL ENVIRONMENT CENTRE FOUNDATION
	JICA CENTER
	Osaka International Center
	REMARKS

Air Quality Management Policy II 大気保全政策		9 participants J0400864	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
Air quality of great cities in developing countries has gotten worsened due to industrialization and urbanization. Japanese government is expected to hold a training course concerning air pollution control, because Japan had suffered from severe air pollution problems and overcome those issues. The Environmental Engineering (Air Pollution Control) course has started since 1985, which focuses on countries of ASEAN, Latin America, the Middle and Near East, and Europe. Since 2005, subjects of automobile pollution countermeasures will add more to the course.	<ul style="list-style-type: none"> • be university graduates or those who possess equivalent technical qualification in this field • be technical officials directly responsible for air pollution control administration especially in a position to participate in planning and deciding at either central or local governmental organizations • not be serving in the military 		
COURSE CONTENTS	DURATION		
Goal 1: Make an air pollution countermeasure plan and take leadership at national or local governments. Goal 2: Understand the whole system of air quality management. Goal 3: Understand technical aspects of air pollution countermeasures (stationary and mobile sources), and air quality monitoring method. Goal 4: Exchange opinion of current status of air quality and countermeasures in each country. The course consists of lectures, filed studies, and practices. The subjects are as follows. 1. Pollution problems and their countermeasures, the system of air quality management, the Basic Environment Law, and Environmental Quality Standards in Japan 2. Countermeasures of air pollution from stationary and mobile sources, total volume of air pollutants, and air quality monitoring in Japan 3. Exchange of opinions among participatory countries, discussion, and practice of air quality management planning	Jan. 18, 2005 ~ Mar. 6, 2005		
	LANGUAGE	COOPERATION PERIOD	
	English	2004 ~ 2008	
	TRAINING INSTITUTIONS		
	Japan Environmental Sanitation Center		
	JICA CENTER		
	Hachioji International Center		
	REMARKS		

CAPACITY BUILDING FOR POLICY MAKER REGARDING GLOBAL WARMING(KYOTO MECHANISM) 地球温暖化対策（京都メカニズム）担当者養成		10 participants J0400793	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
As Japan is partly to the United Nations Framework Convention on Climate Change, the purpose of the course is to systematically introduce measures to reduce emission of Green House Gases and give participants better understanding of Kyoto Mechanism and role of the developing countries in Clean Development Mechanism.	1) Administrative officers or researchers of national/local government who are in charge of making and/or implementing the policies concerning Kyoto Mechanism. 2) less than 45 years of age		
COURSE CONTENTS	DURATION		
1) Scientific aspect of Climate Change - Global warming and its influence - Japan's GHGs emission mitigation measures to achieve the commitment stipulated in the Kyoto Protocol 2) Outline of Kyoto Protocol and the rule of Kyoto Mechanism - UNFCCC, Kyoto Protocol(history, structure, target), and Kyoto Mechanism 3) Procedure for the Project of Kyoto Mechanism - Kyoto Protocol(Text), Marrakech Accords, CDM Project Design Document (PDD) - Validation and Registration before CDM project Implementation - CER Verification/Certification/Issuance after CDM Project Implementation 4) Measure to limit/reduce emissions of Green House Gases - Measures taken by industries against global warming - Energy and resource saving for CO2 reduction in major energy intensive industry 5) Role of the developing countries for the facilitation of CDM projects	Jun. 14, 2004 ~ Aug. 2, 2004		
	LANGUAGE	COOPERATION PERIOD	
	English	2003 ~ 2007	
	TRAINING INSTITUTIONS		
	INT'L CENTER FOR ENVIRONMENTAL TECH. TRANSFER		
	JICA CENTER		
	Chubu International Center		
	REMARKS		
	Intensive Japanese Lesson : 30 hours		

OPERATION & MAINTENANCE OF SEWERAGE FACILITIES II 下水道維持管理II		6 participants J0400762	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
(1)To acquire basic knowledge of sewer systems and wastewater treatment.(2)To acquire knowledge necessary for planning and designing of sewer systems (sewer network, sewage facilities) .(3)To acquire knowledge necessary for maintaining sewer systems (sewer network, sewage facilities) .(4)To acquire knowledge necessary for industrial wastewater treatment and pretreatment facilities for discharge to sewerage system.(5)To write a proposal to improve sewer systems in the participants' respective countries, with a clear understanding of relevant experiences and knowledge acquired in the course.	(1) be a university graduate or equivalent in this field, and have more than three years of practical experience (2) senior technical officer in charge of sewage works in central or provincial government, or in local bodies (3) under 40 years of age		
COURSE CONTENTS	DURATION		
In this course, the emphasis is put on practice and exercise concerning operation and maintenance of sewerage facilities. It mainly deals with; (1) basic concept of sewerage system (2) maintenance of sewers (3) management of wastewater treatment plants (4) utilization of treated wastewater and sludge (5) controlling water pollution due to industrial wastewater (6) finance of sewerage works.	Aug. 17, 2004 ~ Oct. 17, 2004		
	LANGUAGE	COOPERATION PERIOD	
	English	2003 ~ 2007	
	TRAINING INSTITUTIONS		
	SEWERAGE BUREAU, CITY OF SAPPORO		
	JICA CENTER		
	Hokkaido International Center, Sapporo		
	REMARKS		

SEWAGE WORKS ENGINEERING III 下水道技術III		11 participants J0400779	
OVERALL GOAL / PURPOSE	The purpose of the course is to provide participants with a basic knowledge of sewage collection, urban drainage systems, sewage treatment and disposal, and sludge handling, as well as to furnish them so that the participants would be able to play their greater role for further progress and advancement of sewage works in their respective countries.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	This course covers the following themes: (1) basic theory of sewerage and sewage purification (2) process and methods for planning and designing sewers, pumping stations, and sewage and sludge treatment facilities (3) rough master plan for a sewage systems (4) pretreatment of industrial wastewater (5) significance and methods of water quality analysis (6) advanced sewage and sludge treatment technology	DURATION	
		Aug. 31, 2004 ~ Nov. 28, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	2003 ~ 2007
		TRAINING INSTITUTIONS	
		Sewage Business Management Center	
		JICA CENTER	
		Tokyo International Center	
		REMARKS	

Effective Use of Industrial Water and Re-use of Waste Water 工業用水使用合理化及び廃水再生利用 (16年度休止)		no executed	
OVERALL GOAL / PURPOSE	The participants are expected to acquire knowledge on: (1) the present status of industrial water and waste water management, recycling water for industrial use and reusing waste water in Japan, (2) the present trend in basic and advanced technologies in the fields of industrial waste water treatment and reuse, and (3) case studies in saving and reusing industrial water and waste water, and (4) general outline of the facilities and equipment concerned.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	(1) Current policy related to water production technology in Japan. (2) General information on public and private organization (3) Basic and advanced technologies for waste water reuse (4) Case studies on waste water reuse (5) Overall information on technology for treatment of industrial waste water discharged from such industries as food processing, textile dyeing, electroplating and so on. (6) Effective use of industrial water (7) Study visit to industrial water supply plants, and waste water treatment and reuse facilities, (8) Other related subjects	DURATION	
		LANGUAGE	COOPERATION PERIOD
		English	1989 ~ 2007
		TRAINING INSTITUTIONS	
		WATER RE-USE PROMOTION CENTER	
		JICA CENTER	
		Tokyo International Center	
		REMARKS	
		This course (formerly called 'Group Training Course on Saving and Re-use of Waste Water') is conducted biennially, and planned to be held in FYJ2005 & 2007.	

LAKE WATER QUALITY MANAGEMENT 湖沼水質保全		10 participants J0400687	
OVERALL GOAL / PURPOSE	This course is intended for technical administrators and leading researchers engaged in the establishment and implementation of policies and measures for preservation and management of water quality of lakes (natural and artificial) in developing countries. This course aims to contribute to the qualitative improvement and sound development of environmental conservation of lakes and reservoirs in participating countries.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	In this course, the emphasis is put on workshop practice. The main themes are: (1)Lectures: (a)Environmental problems related to lakes and reservoirs-ex.Environmental pollution,Contaminated water, Eutrophication,etc(b)Water pollution prevention technique-ex.Industrial waste water treatment, Domestic waste water treatment,etc(c)Water quality measurement techniques-ex.Outline of monitoring network, Analytical techniques of main items,etc(d)Water pollution estimation techniques-ex.Pollution load sources and their conditions,Basic theories on various models,etc(e)Environment management techniques-ex.Preparation methods for lake water quality management plans,etc(f) Administrative measures for environmental preservation-ex.Laws relating to lakes and reservoirs,etc. (2)Practices:(a)Water treatment techniques (b)Measurement techniques (c) Environment management techniques (3)Observation: Permanent Monitoring Facilities of lake water quality, Water treatment facilities, Sewage water treatment facilities, etc.	DURATION	
		Jan. 5, 2005 ~ Mar. 20, 2005	
		LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
		INT'L LAKE ENVIRONMENT COMMITTEE FOUNDATION	
		JICA CENTER	
		Osaka International Center	
		REMARKS	
		ILEC Homepage: http://www.ilec.or.jp/	

INDUSTRIAL WASTEWATER TREATMENT TECHNIQUES II 産業廃水処理技術II		8 participants J0400815	
OVERALL GOAL / PURPOSE	This training course is designed to enhance the capability of the managers and engineers in charge of pollution control, especially in the field of industrial wastewater. It will enable them to acquire basic knowledge of pollution details and pollution indexes required for planning, designing and operational control of wastewater facilities through participatory trainings such as practice on analysis or tests and case study.	QUALIFICATION OF APPLICANT	
		(1) be an engineer in charge of wastewater treatment in government or manufacturing industries with more than 5 years of experience, (2) be a unit. Graduate majoring in chemical, mechanical, electrical or civil engineering, and less than 45 years of age	
COURSE CONTENTS	(1) Basic of Water Pollution Control : Introduction to water pollution prevention, global Environment and Environmental Assessment, etc (2) Basic Theory of Wastewater Treatment: Pollution control processes, Outline and development of Wastewater treatment technique (3) Basic Plant of Wastewater Treatment: Investigation of Wastewater and Data analysis, Selection of treatment method and Mass balance, Details of Wastewater treatment and Model Test (4) Design and construction of Wastewater Treatment Facilities: Detail design of Equipment and Structures and Layout, construction Plan and Schedule management, Planning of Wastewater treatment facilities, Automatic Control Practice, Application of CAD Practice (5) Operation and Maintenance of Wastewater Treatment facilities: Wastewater Analysis Practice, Iron making equipment and measures against water, Pollution, Work Improvement Technique, Maintenance of Wastewater treatment facilities, an introduction to Maintenance Management, Cleaner Production	DURATION	
		Jul. 12, 2004 ~ Nov. 14, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	2003 ~ 2007
		TRAINING INSTITUTIONS	
	KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION		
	JICA CENTER		
	Kyusyu International Center		
	REMARKS		
	The target of this course is the field of industrial wastewater from manufacturing process, NOT including domestic wastewater from houses/offices.		

DOMESTIC WASTEWATER TREATMENT TECHNIQUE 生活排水対策		7 participants J0400655	
OVERALL GOAL / PURPOSE	Participants will be provided with the knowledge and techniques to improve their ability to solve existing problems relating to domestic wastewater in their countries by achieving: (1) Understanding the generation mechanism of environmental pollution caused by domestic wastewater; (2) Obtaining the comprehensive understanding on domestic wastewater management in urban areas (3) Obtaining the basic monitoring methodology of environmental pollution related to domestic wastewater; (4) Understanding Japanese administrative framework on domestic waste water management	QUALIFICATION OF APPLICANT	
		(1) be technical upper-class-administrator who have at least 3 years of experience in domestic wastewater treatment, or the equivalent (2) have sufficient command of spoken and written English (3) be 40 years of age or younger	
COURSE CONTENTS	(1) Outline of administration concerning water in local government (2) Administrative framework on water pollution control (3) Basic theory of water quality conservation (4) Technical training on sewage/ drainage treatment (5) Practical training in human excreta treatment (6) Practical training in Jokaso system (7) Practical training in water supply (8) Outline of domestic refuse treatment (9) Outline of river/ water way management in urban areas (10) Basic practice in water quality analysis (11) Project Cycle Management (PCM) Method (12) Study tours	DURATION	
		Aug. 16, 2004 ~ Nov. 28, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
	KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION		
	JICA CENTER		
	Kyusyu International Center		
	REMARKS		

TECHNOLOGY FOR INSPECTION OF WATER POLLUTION IN URBAN AREAS II 都市型水質汚濁検査技術II		5 participants J0403515	
OVERALL GOAL / PURPOSE	The participants are expected (1)to deepen understanding about the importance of prevention measures through learning Sapporo's water pollution prevention. (2)to obtain inspection technology necessary for scientific administration against environmental deterioration caused by water pollution. (3)to be able to identify what system and technology would be required for the environmental preservation administration in respective countries. (4)to consider the method of applying in respective countries the knowledge and technology obtained through the training course.	QUALIFICATION OF APPLICANT	
		(1)be university graduates or equivalent of technical qualifications in this field (2)be technicians or engineers in research institute for water pollution or in a department of water pollution administration in central or provincial government (3)have more than one year experience in water inspection (4)be under 40 years old	
COURSE CONTENTS	This course covers the following topics. (1)Lectures (a) water quality control (b) water pollution prevention measures administration of waterworks, sewerage and waste substance (2)Observation tours; waterworks, sewerage and waste treatment facilities (3) Discusson and Presentation	DURATION	
		May. 25, 2004 ~ Jul. 18, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	2001 ~ 2005
		TRAINING INSTITUTIONS	
	SAPPORO INSTITUTE OF PUBLIC HEALTH		
	JICA CENTER		
	Hokkaido International Center, Sapporo		
	REMARKS		

STORMWATER DRAINAGE TECHNOLOGY WITH SEWERAGE SYSTEM II 都市排水II		6 participants J0400745	
OVERALL GOAL / PURPOSE	The purpose of this course is to offer technical administrative officers an opportunity to acquire knowledge and technological know-how on sewerage system improvement (basic planning, designing, construction, and maintenance), with emphasis on rainwater drainage works in urban areas, and hence contributing to the improvement of the expertise of the leading administrative officers in this field, and the effective execution of sewerage system improvements in participating countries.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	The main themes are: (1) Introduction to Sewerage System (2) Urbanization and Urban Drainage (3) Improvement of Urban Sewerage System and Stormwater Control (4) Design and Construction of Urban Drainage Facilities (5) Maintenance of Sewerage Facilities (6) Improvement of Urban Infrastructure	DURATION	
		Aug. 16, 2004 ~ Nov. 21, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	2002 ~ 2006
		TRAINING INSTITUTIONS	
		OSAKA CITY SEWAGE WORKS BUREAU	
		JICA CENTER	
		Osaka International Center	
		REMARKS	

WATER ENVIRONMENTAL MONITORING 水環境モニタリング		10 participants J0400688	
OVERALL GOAL / PURPOSE	In the most developing countries, water pollution has been getting severe year by year as growing their economic activity and rapid urbanization. In order to tackle the water pollution, it is essential to evaluate the status of water quality by carrying out the monitoring. Environmental monitoring requires not only technical knowledge on cause and effect of water pollution but also analytical techniques. Then, this course aims to provide necessary information and skills on the water quality monitoring.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	1) Mechanism of water pollution and its effects on our life i) History of water pollution in Japan ii) Behavior and fate of pollutants in water system iii) Adverse effects of water pollution on ecosystems, society and economy 2) Water pollution control system i) Regulation and task of governmental organizations ii) Importance of monitoring work, roles of environmental analysis 3) Methodology of water quality monitoring i) Development of monitoring system ii) Laboratory practice on water analysis (analytical methodologies for pollutants in river, pond and lake waters); a) total organic carbon by using a total organic carbon analyzer (TOC), b) heavy metals by using an atomic absorption spectrometer (AAS), c) agricultural chemicals by using a gas chromatograph with electron capture detector (GC/ECD) and high performance liquid chromatograph (HPLC), iii) Data interpretation	DURATION	
		Sep. 21, 2004 ~ Nov. 20, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
		Nat'l Env. Research & Training Inst. Min. of the Env	
		JICA CENTER	
		Hachioji International Center	
		REMARKS	
		Cooperative Ass.: Japan Society on Water Environment	

INDUSTRIAL SOLID WASTE RECYCLING TECHNOLOGY 産業廃棄物の再資源化		5 participants J0403121	
OVERALL GOAL / PURPOSE	The purpose of this course is to give the participants an overall knowledge of technologies for industrial waste management and recycling, present trends of legislation and policies in the field of industrial waste management & recycling, skills to develop and implement recycling plans for industrial waste, and an overall information on the facilities and equipment concerned.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	(1) Present status of industrial waste management & recycling in Japan (2) Related legislation and strategies established in Japan (3) Implementation of countermeasures towards the creation of recycle-oriented society (standardization by ISO / green purchasing / product assessment (including LCA) / 3R-oriented design (Design for Environment)) (4) Present status of recycling by products in Japan (packagings & containers / home electrical appliances / foods / construction materials / end-of-life vehicles) (5) Development of environmental key technology (pre-treatment (collection, dismantling, crushing, sorting, dehydration & drying) / incineration, vitrification (melting) & solidification / pyrolysis / bio-treatment / energy-utilization)	DURATION	
		Jan. 11, 2005 ~ Feb. 20, 2005	
		LANGUAGE	COOPERATION PERIOD
		English	1990 ~ 2008
		TRAINING INSTITUTIONS	
		CLEAN JAPAN CENTER	
		JICA CENTER	
		Tokyo International Center	
		REMARKS	
		This course is conducted biennially and planned to be held in FYJ 2004, 2006 and 2008.	

URBAN SOLID WASTE MANAGEMENT II 都市廃棄物処理II		10 participants JO400802	
OVERALL GOAL / PURPOSE	The purpose of the course is to contribute to the improvement of public health in participating countries by training personnel to take leadership and middle management roles in planning and implementing waste management programs in their own countries. This will be accomplished by having participants learn in details about waste management in big cities in Japan. They will also learn about the characteristics of urban waste management programs while acquiring comprehensive knowledge on waste management.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	In this course, the emphasis is put on introduction of the Japanese experience. The main themes are: (1) outline of waste management (2) outline of regional administration (3) economics and measures to counteract pollution (4) domestic waste management (5) intermediate treatment facilities (6) final disposal site (7) restrictions on industrial waste management. And this year, we will put more emphasis on lectures of urgent issues of developing countries, such as design of final disposal site with practices etc... Applications are strongly expected to work in the field of waste management after the training course.	DURATION	
		Aug. 16, 2004 ~ Oct. 17, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	1998 ~ 2007
		TRAINING INSTITUTIONS	
OSAKA CITY ENVIRONMENTAL MANAGEMENT BUREAU		JICA CENTER	
		Osaka International Center	
		REMARKS	
		Participant should bring his/her country report contained on CD-ROM.	

COMPREHENSIVE WASTE MANAGEMENT TECHNIQUE 廃棄物管理総合技術		8 participants JO403526	
OVERALL GOAL / PURPOSE	This course aims to help senior technical staffs in charge of solid waste management at national/local governments improve their practical capabilities in executing waste management, by introducing the Japanese experience. The objective is to (1) understand the classification of waste and the treatment of the entire waste management cycle in Japan, (2) understand the significance of environmental education, assessment and management and (3) examine a future strategy of effective waste management in each country.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	(1) Issue Analysis Workshop Re-analyze the issues they confront and share them with other participants. (2) Overview Understand the administrative system and policies on waste management and environmental conservation in Japan. (3) Detailed studies Understand the following subjects: Waste Management Policy, Landfill Disposal Technique, Waste Analysis Technique, Waste Treatment Technique, Environmental Management, Environmental Education, Measures Against Global Environmental Issues. *Each subject will consist of lecture, practice, observation, review, and discussion.	DURATION	
		May. 11, 2004 ~ Aug. 11, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	2001 ~ 2005
		TRAINING INSTITUTIONS	
HIROSHIMA PREFECTURAL GOVERNMENT		JICA CENTER	
		Chugoku International Center	
		REMARKS	

SEMINAR ON COMPREHENSIVE SOLID WASTE MANAGEMENT 廃棄物総合管理セミナー		10 participants JO400671	
OVERALL GOAL / PURPOSE	The purpose of the seminar is to increase capacity of mid-career officers in charge of solid waste management at central or local governments. By the end of the seminar, participants are expected to increase planning ability to improve solid waste management in respective countries.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	The following subjects are covered at the seminar; (1) solid waste management (2) planning and institutional system of solid waste management (3) solid waste reduction, recycling and citizens' participation (4) hazardous waste management (5) collection and transportation of solid waste (6) solid waste management technology (7) others (country report presentation, group discussion and action plan presentation)	DURATION	
		May. 11, 2004 ~ Jul. 17, 2004	
		LANGUAGE	COOPERATION PERIOD
		ENGLISH	2000 ~ 2004
		TRAINING INSTITUTIONS	
Japan Environmental Sanitation Center		JICA CENTER	
		Yokohama International Center	
		REMARKS	
		High command of English (Speaking, Listening and writing) is required at the seminar.	

RENOVATION OF INDUSTRIAL PLANT FOR CLEANER PRODUCTION クリーナープロダクションのための工業設備のリノベーション		6 participants J0403459	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
This training course is designed to enhance the capability of design or maintenance engineers in the field of process industries such as chemical, ceramic, food, petroleum, refinery and steel plant, (1) learning about "Cleaner Production" in Japan and how to carry out, (2) learning how engineering is carried out for "Renovation" of existing plant, and to bring up the engineer who has the ability to carry out, and (3) learning how to implement effective "Maintenance Management" and to acquire "Inspection Technology".	(1) have more than 5 years of experience in operation, design or maintenance in the field of process industries such as chemical, ceramic, food, petroleum, refinery, iron and steel plant. (2) be graduates of university, who have majored in engineering or the equivalent, (3) be 40 years of age or younger.		
	DURATION Feb. 7, 2005 ~ Jun. 5, 2005		
COURSE CONTENTS (1) Introduction to Cleaner Production (2) Practice of TPM, 5S and Kaizen Activity (3) Environmental Issues (4) Basic Engineering (5) Selection of Main Equipment (6) Selection of Motors, Electrical Control (7) Process Control, Sequence Control (8) Selection of Materials, Corrosion and Protection (9) Maintenance Management (10) Non-destructive Inspection (11) Machine Condition Diagnosis Techniques (12) New QC 7 Tools (13) Value engineering	LANGUAGE	COOPERATION PERIOD	
	English	2000 ~ 2004	
	TRAINING INSTITUTIONS KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION		
	JICA CENTER Kyusyu International Center		
	REMARKS		

PLANT MAINTENANCE ENGINEERING FOR CLEANER PRODUCTION クリーナープロダクションのためのプラントメンテナンス技術		7 participants J0403449	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
(1) understanding the necessity of cleaner production (CP) and relations between global environment problems and plant maintenance (2) building capacity of managing efficient plant maintenance management by acquiring basic knowledge of utilizing maintenance resources (3) growing maintenance technicians who have learned basics and applied knowledge of maintenance engineering in order to improve and solve problems (4) gaining access to current technology, plant maintenance engineering and plant maintenance management applied to Japanese plants through plant observation	(1) be mechanical maintenance engineer / manager who is presently in charge of maintenance work in continuous process industry (iron & steel, oil refinery, chemical, cement, etc.), (2) have at least 5 years of occupational experience in the field of plant maintenance, (3) have basic skill and experience of computer operation, etc.		
	DURATION May. 5, 2004 ~ Sep. 26, 2004		
COURSE CONTENTS In this course, the emphasis is put on the introduction of basic subjects of computerized maintenance management and techniques, as well as practical maintenance technology and effective maintenance management on the factory floor. The course covers: (1) Introduction to Plant Maintenance (2) Plant maintenance management system (3) Maintenance of automatic control system (4) Hydraulic system (5) Improvement technique (6) Basic maintenance management (7) Data collection and their utilization (8) Plant maintenance in companies (9) Equipment diagnosis techniques (10) Nondestructive inspection technique (11) Lubrication techniques (12) Metal fatigue (13) Heat treatment and hard facing by high frequency (14) Welding techniques (15) Corrosion and analysis (16) Industrial sensors and their application (17) Total productive maintenance (TPM) (18) Fracture mechatronics (19) Reliability & maintainability (20) Concept of equipment design (21) CAD/CAM (22) global environmental issues (23) Cleaner Production (24) Plant observation	LANGUAGE	COOPERATION PERIOD	
	English	2000 ~ 2004	
	TRAINING INSTITUTIONS KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION		
	JICA CENTER Kyusyu International Center		
	REMARKS		

Plant Maintenance Management for Cleaner Production II クリーナープロダクションのための保全管理II		7 participants J0400885	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
The purpose of this course is to develop human resource of manager and to contribute to improvement of the environment and economic development through productivity improvement and Cleaner Production by establishing proper maintenance management system. Course objectives are (1) to understand Cleaner Production and environmental problem (2) to acquire the maintenance management system of each industry sector (3) to acquire the maintenance techniques and improvement techniques (4) to acquire the education methods of employee (5) to extend the knowledge as a manager through study trips to Japanese company.	(1) have at least 5 years of practical experience in the field of actual plant maintenance (2) be manager or higher positioned personnel at plant maintenance work (3) be university graduate of the field of engineering or the equivalent (4) be between ages of 35 to 45		
	DURATION Jan. 3, 2005 ~ Apr. 28, 2005		
COURSE CONTENTS The emphasis is put on the introduction of Japanese experience or the present state of the maintenance management of leading Japanese companies in various industrial fields to enable participants to apply and manage the maintenance function of each corporation in respective countries. The subject covered in the course are; (1) outline of maintenance (2) plant maintenance management (Ex. inspection plan, fault management, maintenance data) (3) maintenance management system (4) improvement method (Ex. QC 7 tools, administrative engineering) (5) machine diagnosis techniques (Ex. non-destructive tests) (6) fundamental techniques for maintenance (Ex. machine assembly, welding, sequence) (7) repairing techniques (8) study trip and observation visit	LANGUAGE	COOPERATION PERIOD	
	English	2004 ~ 2008	
	TRAINING INSTITUTIONS KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION		
	JICA CENTER Kyusyu International Center		
	REMARKS		

Computerized Machine Control for Mechanical Automation-Essentials for Cleaner Production コンピューターによる機械制御-クリーナープロダクションのための高度設備システムの構築-II		6 participants J0400886	
OVERALL GOAL / PURPOSE	The purpose of this course is to enhance the capability of engineers who are in charge of machine automation or quality management or productivity improvement. This course is designed to introduce the electromechanical technology, through lectures, practices using simulators and plant tours, thus enables them to carry out the operation, maintenance and improvement of various automated machinery, macaronis equipment and cleaner production.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS (1) understand the maintenance engineering of productive facility (2) understand the cleaner production in manufacturing (3) acquire the technique of control engineering simulation (4) understand the basic theory of process control (5) understand the basic theory of sequence control (6) understand the basic theory of accounting machine control (7) understand the basic theory of facility diagnosis measure		DURATION Nov. 8, 2004 ~ Mar. 23, 2005	
		LANGUAGE English	COOPERATION PERIOD 2004 ~ 2008
		TRAINING INSTITUTIONS KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION	
		JICA CENTER Kyusyu International Center	
		REMARKS	

AUTOMATIC CONTROL (BASIC)-AUTOMATION OF INDUSTRIAL PLANT EQUIPMENT FOR CLEANER PRODUCTION 自動制御 (基礎) -クリーナープロダクションのための設備システムの構築-		7 participants J0400310	
OVERALL GOAL / PURPOSE	The purpose of the course is to provide participants with basic theory and practice on automatic control in order to achieve automation of factories, thus leading to the sustainable industrial development through: (1) understanding the global environmental issues and Cleaner Production, (2) learning practical knowledge on computer control, (3) learning practical knowledge on sequence control, human-machine-interface, (4) learning practical knowledge on industrial electrical control and (5) learning practical knowledge on process control and process simulation.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS The course is conducted in the form of lectures, practice, exercise on simulator and factory observations, in order to enhance participants' basic and practical knowledge of automatic control to prevent malfunction and damage of the whole system in plant. The following subjects are mainly covered in the course: (1) Cleaner Production, (2) Computer Control, (3) Sequence Control, Human-Machine-Interface, (4) Industrial Electrical Control, (5) Process Control, Digital Process Control Simulation and (6) Basic of Maintenance.		DURATION Jul. 5, 2004 ~ Nov. 18, 2004	
		LANGUAGE English	COOPERATION PERIOD 1986 ~ 2005
		TRAINING INSTITUTIONS KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION	
		JICA CENTER Kyusyu International Center	
		REMARKS	

ENVIRONMENTAL IMPACT ASSESSMENT 環境影響評価実務		10 participants J0400672	
OVERALL GOAL / PURPOSE	Execution of appropriate techniques and procedures of Environmental Impact Assessment (EIA) is one of the methods to promote sustainable development and environmental management. This training course is designed to provide officers in charge of EIA execution with fundamental knowledge and technical background and to build their overall capacity in environmental management regarding EIA. Its main purpose is to transfer techniques and exchange knowledge on institutional frameworks and processes for the application of EIA systems.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS The course consists of lectures, field trips, exercises, and discussions that allow participants to be exposed to the experiences of EIA in Japan and other countries. The course focuses on introduction of Japanese administration, techniques and processes of EIA, case studies of EIA and environmental management in Japan, in addition to informational exchange among participants. The main subjects that will be covered in the course are: (1) Introduction to EIA in JAPAN (2) Procedures and techniques for EIA (3) EIA in International Cooperation (4) Case studies of EIA in development projects in Japan (5) Action Plan devising through Project Cycle Management (PCM) method.		DURATION May. 11, 2004 ~ Jun. 13, 2004	
		LANGUAGE English	COOPERATION PERIOD 2000 ~ 2004
		TRAINING INSTITUTIONS Overseas Environmental Coop. Center (OECC)	
		JICA CENTER Tokyo International Center	
		REMARKS Since this course is subject to administrative officers with technical background, researchers may not be able to attain their academic objectives.	

ENVIRONMENT POLICY AND ENVIRONMENTAL MANAGEMENT SYSTEM 環境政策・環境マネジメントシステム		8 participants J0400663	
OVERALL GOAL / PURPOSE	In developing countries, countermeasures to industrial pollution and urban-life pollution from the viewpoint of prevention of global warming are to be promoted. The introduction of appropriate technology for sustainable development is also required.	QUALIFICATION OF APPLICANT	
		(1) middle-ranking officials in charge of project planning in the field of environment (2) have more than 10 years' experience (3) between 35 and 45 years of age (4) university graduates	
		DURATION	
		May. 17, 2004 ~ Jul. 8, 2004	
COURSE CONTENTS	In this course, the following major subjects will be covered through lectures, discussions and observation trips: (1) countermeasure to environmental problem and its history (2) environmental law system in Japan (3) establishment of environmental standard and discharge standard (4) monitoring of generation sources (5) establishment of environmental management plan and regional pollution prevention plan (6) environmental assessment (7) sustainable development (8) preservation of global environment	LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
		GLOBAL ENVIRONMENT CENTRE FOUNDATION	
		JICA CENTER	
		Osaka International Center	
		REMARKS	
	Participant should bring his/her country report contained on CD-ROM, or this year, follow-up programme will be implemented.	By 6 days programme, participant could get 50 % points enough to get the internationaly authorized environmental audit personnel.	

RESEARCH ON ENVIRONMENTAL TECHNOLOGY 環境調和技术		6 participants J0400729	
OVERALL GOAL / PURPOSE	It is designed for researchers in the field of environmental technology with the aims 1) to master research and technical methods and to play a leading role in the field of environmental technology in their own countries, and 2) to share environmental awareness and technology so as to solve the environmental pollution problems. The participants will study environment friendly technologies through the course, which is research-oriented and based on the laboratory work under the advice of the host-researchers.	QUALIFICATION OF APPLICANT	
		(1) be researchers in the field of env. technology in public research institutes or universities; (2) have master's degree or its equivalent; (3) have research experience of more than 3 years; (4) meet the specific requirement for each individual research subject; (5) be not more than forty (40) years of age	
		DURATION	
		Jul. 27, 2004 ~ Jun. 26, 2005	
COURSE CONTENTS	1) Introductory lectures in AIST (2 weeks) A. Introductory lectures B. Observation tour of the research institutes in Tsukuba Science city 2) Individual research (approximately 10 months) It is basically conducted on one subject selected by each participant. 3) Oral presentation (3 times) A. Presentation of individual research proposal B. Presentation of Mid-term report C. Presentation of technical report 4) Technical tours (1 week × 2 times)	LANGUAGE	COOPERATION PERIOD
		English	2002 ~ 2006
		TRAINING INSTITUTIONS	
		National Institute of Advanced Industrial Science and Technology	
		JICA CENTER	
		Tsukuba International Center	
		REMARKS	
		Intensive Japanese Language Course : 50 hours	

RISK ASSESSMENT AND MONITORING FOR ENVIRONMENTAL CHEMICALS 環境負荷化学物質の分析技術及びリスク評価		8 participants J0400811	
OVERALL GOAL / PURPOSE	Contamination of environment and agricultural products caused by environmental chemicals including pesticide residues and treatment of industrial and domestic wastes are issues. To assess the safety of the environment and agricultural products, the improvement of risk assessment and monitoring technologies for environmental chemicals requires immediate attention. The aim of this course is designed that leading technical officers and researchers can gain know- ledge and technologies for risk assessment and monitoring environmental chemicals	QUALIFICATION OF APPLICANT	
		1) Intermediate level technical officers in the fields of environmental science and leading technical officers and researchers in charge of risk assesement and monitoring environmental chemical 2) University graduates 3) 25-40 years of age 4) Proficient in spoken and written English	
		DURATION	
		Feb. 14, 2005 ~ Aug. 21, 2005	
COURSE CONTENTS	In this course, the emphasis is placed on introduction of comprehensive knowledge on the following subjects through lecture, practice and field trip. (1) Administration and laws for environmental chemicals (2) Environmental chemicals (3) Analytical methods of environmental chemicals including pesticide residues in crops and environment (4) Biotechnological approach (Biotechnology, Immunoassays, Bioassays) and (5) Field trips/Observation trips.	LANGUAGE	COOPERATION PERIOD
		English	2003 ~ 2007
		TRAINING INSTITUTIONS	
		KOBE UNIVERSITY	
		JICA CENTER	
		Hyogo International Center	
		REMARKS	
		A compulsory intensive Japanese language course will be conducted for 8 days prior to the technical training	

ENVIRONMENTAL RADIOACTIVITY ANALYSIS AND MEASUREMENT 環境放射能分析		5 participants J0400686	
OVERALL GOAL / PURPOSE	(1) acquire the basic knowledge necessary to master the methods of environmental radioactivity analysis&measurement (2) understand the methods to collect&pretreat environmental samples (3) understand the methods of radionuclide analysis (gamma-ray spectrometry, tritium analysis, radiostrontium analysis, uranium analysis and radon measurement) (4) understand the methods for measurement of environmental gamma ray dose rate and accumulate dose (5) formulate an action plan to apply the acquired knowledge to future activities in one's own country	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	This course mainly consists of lectures, laboratory exercises, and observations. The following major subjects will be covered in this course: (1) Basics of Environmental Radioactivity Analysis (2) Collection and Pretreatment of Environmental Samples (3) Gamma-ray Spectrometry with a Ge Semiconductor Detector (4) Tritium Analysis (5) Radiostrontium Analysis (6) Uranium Analysis (7) Radon Measurement (8) Measurement of Environmental Gamma Ray (9) Action Plan Development	DURATION	
		Aug. 17, 2004 ~ Sep. 19, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
		JAPAN CHEMICAL ANALYSIS CENTER	
		JICA CENTER	
		Tokyo International Center	
		REMARKS	

INDUSTRIAL POLLUTION CONTROL ENGINEERING 産業環境対策		7 participants J0400311	
OVERALL GOAL / PURPOSE	The purpose of this course is to enhance the capability of engineers who are in charge of industrial pollution control. This course is designed to introduce the experience of Kitakyushu City and other areas in Japan in overcoming pollution problems with collaboration among government, research institutes, companies and citizens so as to learn management of environmental problems.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	(1) understand the mechanism of environmental pollution and the methods of measuring pollutants (2) understand the influence of environmental pollution to human body and natural environment (3) acquire the knowledge of the construction and installation of pollutant treatment equipment attached to manufacturing facilities (4) recognize the importance of taking precautionary measures for environmental pollution (5) plan administrative environmental control measures	DURATION	
		May. 10, 2004 ~ Aug. 21, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	1986 ~ 2005
		TRAINING INSTITUTIONS	
		KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION	
		JICA CENTER	
		Kyusyu International Center	
		REMARKS	

TOP MANAGEMENT SEMINAR ON SUSTAINABLE INDUSTRIAL DEVELOPMENT II 持続可能な産業開発トップマネジメントセミナーII		8 participants J0403510	
OVERALL GOAL / PURPOSE	The purpose of this seminar is to help participants understand that industrial development can coexist with environmental conservation through: (1) understanding Cleaner Production, which enable the coexistence of industrial development and environmental conservation, (2) understanding that not only environmental measure skills but productivity improvement is essential for environmental measures and (3) understanding what is required for Cleaner Production and productivity improvement in enterprises.	QUALIFICATION OF APPLICANT	
COURSE CONTENTS	The main themes of this seminar are: (1) environmental preservation in Kitakyushu City, (2) management in Japanese companies, (3) production management and cost management, (4) quality control, and (5) maintenance, energy-saving and data processing. The seminar mainly consists of lectures, discussion and visits to companies and environmental conservation facilities.	DURATION	
		Aug. 9, 2004 ~ Sep. 18, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	2001 ~ 2005
		TRAINING INSTITUTIONS	
		KITAKYUSHU INT'L TECHNO-COOPERATIVE ASSOCIATION	
		JICA CENTER	
		Kyusyu International Center	
		REMARKS	

AUTOMOBILE AND ENVIRONMENT 自動車と環境		12 participants J0403441	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
Participants are expected to have an incentive and ideas how to contribute to the promotion of legislation, institutionalization and implementation of measures for the environmental issues on automobiles. It is not the objective of the training to familiarize the participants with advanced skills that can be immediately applied in the automobile industry or in the environmental monitoring etc.	(1) national or local government officials who are in charge of environmental issues related to automobiles for at least five years (2) university graduates or equivalent (3) over 28 and under 45 years of age		
COURSE CONTENTS	DURATION		
The course contains lectures, practices, group works and technical tours. Main focus of this course is on environmental issues arising from automobile use and production. Topics of lectures include followings: (1)General: Policy on automobile industry, Inspection, Traffic flow and control, etc (2)Exhaust emission reduction technologies: Testing methods, Clean energy (fuel cell, hybrid, etc), Policies and regulations, etc. (3)Other environmentally friendly technologies: Automobile recycling, Noise reduction, Human health, etc	Jun. 15, 2004 ~ Aug. 7, 2004		
	LANGUAGE	COOPERATION PERIOD	
	English	2000 ~ 2004	
	TRAINING INSTITUTIONS		
	JAPAN AUTOMOBILE RESEARCH INSTITUTE		
	JICA CENTER		
	Tsukuba International Center		
	REMARKS		
	http://www.jari.or.jp/en/index.html		

ENGINEERING FOR REGIONAL ENVIRONMENTAL PRESERVATION 地域環境保全技術		5 participants J0403462	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
The purpose of this course is to provide technical officials with comprehensive knowledge and techniques for measuring and analyzing environmental aspects such as air, water quality and waste which is indispensable to the understanding of basic environmental factors. Consequently, the participants are expected to study the method of the region-wide environmental management and thereby to contribute to the formulation of various measures for environmental management and preservation.	(1) university graduate in science and engineering or equivalent (2) a technical officer engaged in environmental administration at related public organization, or research institute, (3) have more than 5 years experience in related field (4) not more than 45 years of age		
COURSE CONTENTS	DURATION		
This course consists of lectures and visits/field trips from the viewpoint of both theory and practice as follows. (1) Lectures: environmental legislation system, environmental impact assessment, pollution control plans, environmental management plans and other plans, regional activities that address global environmental problems (2) Practices: environmental measuring and analyzing pollution-related technology, environmental monitoring, measures to reduce the burdens of environmental pollution (3) field trips: Lake Utonai Wildlife Center & Oji Paper Manufacturing Plant, general waste disposal site, Waste Recycling Facilities, Minamata Disease Center, Hiroshima peace memorial museum, Environmental Energy Hall of Tokyo Gas Co.	Sep. 7, 2004 ~ Nov. 21, 2004		
	LANGUAGE	COOPERATION PERIOD	
	English	2000 ~ 2004	
	TRAINING INSTITUTIONS		
	HOKKAIDO ENV. SCIENCE RESEARCH CENTER		
	JICA CENTER		
	Hokkaido International Center, Sapporo		
	REMARKS		

DEVELOPMENT OF STRATEGIES ON CLIMATE CHANGE 地球温暖化対策コース		15 participants J0400572	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
The purpose of this course is to assist participating countries to fulfill the obligation of the Framework Convention on Climate Change (UNFCCC). Particularly; (1) developing inventories on green house gas emissions and (2) providing information on the development of strategies on climate change	(1) administrative officials who are presently working in a government organization and are in charge of climate change/global warming issue (2) university graduate or equivalent (3) from 30 to 45 years of age		
COURSE CONTENTS	DURATION		
The curriculum consists of the following three parts. (1) Lectures on (a) outline of the Framework Convention on Climate Change (b) outline of IPCC and its publications; (c) Japan's actions to address global warming; (d) methodologies to calculate GHG emissions; (e) various kind of policies and measures and (g) vulnerability and adaptation measures, etc. (2) Presentation and discussions (a) presentation of Country Reports; (b) groupwork on Action Plan to cope with global warming issues (3) Field trips and study visits	Jan. 11, 2005 ~ Mar. 3, 2005		
	LANGUAGE	COOPERATION PERIOD	
	English	1997 ~ 2006	
	TRAINING INSTITUTIONS		
	MINISTRY OF THE ENVIRONMENT		
	JICA CENTER		
	Tsukuba International Center		
	REMARKS		

HEAVY METAL AND OTHER HAZARDOUS SUBSTANCE POLLUTION CONTROL

有害金属等汚染対策

6 participants JD403524

<p>OVERALL GOAL / PURPOSE</p> <p>The first purpose of this course is to train administrative engineers so that they will understand the importance of heavy metal and hazardous substance pollution control. It is intended to achieve this goal by introducing examples of environmental pollution in Japan. The second purpose is to develop personnel who can comprehensively evaluate heavy metal pollution control measures from emission sources to the environment, and who can formulate measures to prevent heavy metal and other hazardous substance pollution.</p>	<p>QUALIFICATION OF APPLICANT</p> <p>(1) be a university graduate with a chemistry background, or have equivalent aptitude and knowledge (2) be a key administrative engineer (not including researcher) in the environmental field with at least 5 years of experience (3) be between the ages of 25 - 40</p>	
	<p>DURATION</p> <p>May. 24, 2004 ~ Jul. 31, 2004</p>	
<p>COURSE CONTENTS</p> <p>(1) Lectures (Outline of toxic metals, history and measurement of environment pollution caused by toxic metals and other hazardous substances.) (2) Practice of toxic metal analysis (3) Observation (Incineration plants, sewage treatment plants, etc.)</p>	<p>LANGUAGE</p> <p>English</p>	<p>COOPERATION PERIOD</p> <p>2001 ~ 2005</p>
	<p>TRAINING INSTITUTIONS</p> <p>OSAKA PREFECTURAL GOVERNMENT, DEP. OF ENVIRON. & Agri. JICA CENTER Osaka International Center</p>	
	<p>REMARKS</p>	

Aid Strategy/Approach

〈援助アプローチ／戦略〉

SEMINAR ON EVALUATION OF ODA PROJECTS ODAプロジェクト評価セミナー		17 participants JO400833	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
<p>●Objective This seminar is designed for evaluation capacity building of evaluation bodies for development projects in developing countries.</p> <p>●Program Output Target: Those responsible for the evaluation of Japan's yen loan-financed projects Participants are expected to draft an action plan on</p> <p>1) how to development their capacity for social impact-concerned evaluation and result-based evaluation and on</p> <p>2) the strategy to plan/initiate activities such as joint-evaluation with donors.</p>	<p>1) be nominated by their government, 2) be officials who are responsible for Japan's yen-loan and technical cooperation projects or yen loan-financed project evaluation in governmental or equivalent organizations, 3) be university graduates or have equivalent educational background, 4) have a good command of English, 5) be in good health, both physically and mentally, and 6) not be serving in the military.</p>		
COURSE CONTENTS	DURATION		
<p>(1) Outline of JBIC roles and activities (2) JBIC Yen-Loan project post-evaluation/JICA evaluation of technical cooperation projects (3) Project Cycle Management (4) International Organization Evaluation methods (5) IRR (6) Case study (7) Action Plan drafting (8) Scheme for supporting post-evaluation capacity development</p>	Oct. 17, 2004 ~ Nov. 6, 2004		
	LANGUAGE	COOPERATION PERIOD	
	English	2001 ~ 2005	
	TRAINING INSTITUTIONS		
	Japan Bank for International Cooperation (JBIC)		
	JICA CENTER		
	Tokyo International Center		
	REMARKS		
	Seminar title is under planning.		

SEMINAR FOR ODA LOAN IN ENVIRONMENTAL IMPROVEMENT AND ANTI-POLLUTION MEASURES 環境改善・公害対策融資セミナー（円借款事業連携）		16 participants JO400838	
Target Region: Recipient countries of Japan's ODA Loan in environmental improvement and anti-pollution measures			
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
<p>At the end of the course, participants are expected to:</p> <p>(1) acquire knowledge about necessary procedures and important points for implementing JBIC's ODA loan projects in environmental improvement and anti-pollution measures (2) comprehend Japan's experience in environmental improvement (3) to be capable of formulating proposals for solving current problems in ongoing ODA loan projects or developing new ODA loan projects in environmental improvement and anti-pollution measures</p>	<p>Applicants should: (1) have occupational experience in, or be going to be engaged in JBIC's ODA loans for environmental improvement and anti-pollution measures (2) have 5 years or more of occupational experience in the field of environment including anti-pollution measures, at environmental department/institution of central/local government (3) be 30-45 years old</p>		
COURSE CONTENTS	DURATION		
<p>This course mainly consists of lectures, laboratory exercises, and observations. The following major subjects will be covered in this course:</p> <p>(1) JBIC's assistance for environmental improvement (2) Japan's experience of pollution prevention (3) Country report presentation and discussion (4) Individual consultations with JBIC country officers/departments (5) Formulation and presentation of final report that includes proposal and action plan to apply the acquired knowledge to future activities in participants' own country</p>	Aug. 29, 2004 ~ Sep. 18, 2004		
	LANGUAGE	COOPERATION PERIOD	
	English	2003 ~ 2007	
	TRAINING INSTITUTIONS		
	Japan Bank for International Cooperation (JBIC)		
	JICA CENTER		
	Tokyo International Center		
	REMARKS		
	Applications from recipient organizations of ongoing or prospective JBIC project(s) in env.improvement /anti-pollution measures are highly appreciated.		

SEMINAR ON EXTERNAL DEBT MANAGEMENT PRACTICE 公的債務管理能力強化セミナー		17 participants JO400834	
OVERALL GOAL / PURPOSE	QUALIFICATION OF APPLICANT		
<p>Overall Goal: To improve the comprehensive debt management ability of loan recipient countries.</p> <p>Seminar purpose: To draft a plan for improvements of Sovereign debt management, including risk reduction, by identifying the risks of sovereign debt in respective countries and problems in the debt management policy (including the back-office function).</p>	<p>Director level of governmental organizations in charge of Public Debt Management / Public Debt Repayment (e.g. Ministry of Finance, Central Bank, Debt Management Office, etc.)</p>		
COURSE CONTENTS	DURATION		
<p>1 Comprehensive framework of Public Debt Management (1) Classification of recent economic crises and its policy prescription (2) Public Debt Management Policy in Japan (3) Sovereign debt management in an Asset-Liability Management Framework (4) Interface between debt management and fiscal and monetary policy (5) Identification and measurement of risks and the use of strategic benchmarks (6) Organizational models for sovereign debt management</p> <p>2 Public Debt Management practice centered on repayment operation (1) Information systems for sovereign debt management (2) Comparative analysis of debt repayment operation across countries (3) Public Debt Management practice in JBIC</p>	Jan. 18, 2005 ~ Jan. 29, 2005		
	LANGUAGE	COOPERATION PERIOD	
	English	2002 ~ 2004	
	TRAINING INSTITUTIONS		
	Japan Bank for International Cooperation (JBIC)		
	JICA CENTER		
	Tokyo International Center		
	REMARKS		
	Yen-Loan recipient countries		

Seminar for JBIC's Official Financial Cooperation 公的資金協力セミナー		22 participants J0400835	
OVERALL GOAL / PURPOSE		QUALIFICATION OF APPLICANT	
By the end of the course, participants are expected to: (1) understand the concept of Japan's economic cooperation, (2) understand the role of yen loans and its implementation procedures based on the project cycle, (3) enhance understanding of technical cooperation and recognize the possibility and importance of the linkage between yen loan and technical cooperation, (4) enhance understanding of important issues in international financing project, etc., and (5) learn Japan's experience in the development field.		(1) age of 35 to 59, univ. graduates or equivalent, (2) have good command of English and expertise (3) be officials at middle-management levels or above at yen loan corresponding or implementing agencies, involved in JBIC's yen loan-related operations, (4) have at least one (1) to four (4) years of working experience in the field mentioned above.	
COURSE CONTENTS		DURATION	
<Course Contents> (1) Japan's economic cooperation (2) Role and procedures of yen loan (3) Case study of the linkage between technical cooperation and yen loan (4) International financing project (5) Observation tour of local governments and businesses involved in Japan's development experience (6) Country report session with JBIC's section in charge of this course		Sep. 5, 2004 ~ Sep. 23, 2004	
		LANGUAGE	COOPERATION PERIOD
		English	2003 ~ 2007
		TRAINING INSTITUTIONS	
		Japan Bank for International Cooperation (JBIC)	
		JICA CENTER	
		Tokyo International Center	
		REMARKS	

People's Participation

〈市民参加〉

PROMOTION OF ENABLING ENVIRONMENT FOR CIVIL SOCIETY AND COMMUNITY EMPOWERMENT

市民社会活動の促進と地域振興

8 participants J0400841

OVERALL GOAL / PURPOSE

Overall Goal: to develop enabling environment to promote activities of civil society organizations, and promote citizen-oriented regional development processes with own approaches.
Output:
(1)To form a clear vision of the roles of civic organizations in regional development, and
(2)To formulate plans to introduce/improve systems for promoting civil society development.

QUALIFICATION OF APPLICANT

(1)Applicants should have at least 3 years of working experience in the regional development field.
(2)Applicants should be administrative officers involved in the development of the foundations of civil society, or representatives of civic society organizations like NGOs or equivalents.
(3)Working experience in the field: 3 to 5 years

DURATION

Nov. 21, 2004 ~ Dec. 11, 2004

COURSE CONTENTS

- (1)CSO(Civil Society Organizations)'s function as a deliverer of social service,
- (2)CSO's function to solve problems encountered by community.
- (3)CSO's function as promoter of the synergy between community people and government.
- (4)Types and functions of CSOs.
- (5)Case study: the roles of CSOs in community empowerment in participating countries
- (6)Establishment of supporting system for CSOs from public sectors.
- (7)Development of enabling environment for civil-centred policy/system formulation.
- (8)Civil-society based approaches and systems to promote CSOs' activities.
- (9)Comparative study and analysis of systems and environment for promoting CSOs' activities

LANGUAGE

English

COOPERATION PERIOD

2004 ~ 2008

TRAINING INSTITUTIONS

Not Fixed

JICA CENTER

Tokyo International Center

REMARKS

Japanese Language

〈日本語教育〉

BASIC JAPANESE LANGUAGE FOR TECHNICAL COOPERATION 技術協力のための基礎日本語		8 participants J0400421	
OVERALL GOAL / PURPOSE	This course provides Japanese language training for those who have the necessity to use Japanese concerning Japan's technical cooperation programmes. The goal is to be able to 1) express one's intention properly in daily conversation, 2) read and write Hiragana, Katakana and 150 Kanji characters, 3) manipulate elementary Japanese grammatical structure and vocabularies equivalent to the level of 4th grade Japanese Proficiency Test, 4) understand basic terminologies related to JICA/ODA projects, and 5) explain in Japanese the outline of JICA/ODA projects which one is engaged in.	QUALIFICATION OF APPLICANT	
		(1) be engaged in Japan's technical cooperation programmes, at present or in the near future (2) have the necessity to use Japanese concerning the above occupation, after returning to his/her country (3) have no experience in studying Japanese (4) be under 35 years of age	
COURSE CONTENTS	The course curriculum is made to enable participants with 4 basic skills, reading, writing, listening, and speaking. In this course, the emphasis is put on lectures, practice and field trips. The main subjects are: (1) writing practice of Hiragana, Katakana, and Kanji (2) pronunciation (3) basic sentence structure (4) conversation (5) reading and composition skills. We also provide practical training from interviews and project presentation, as well as taking Japanese Proficiency Test to check the improvement of the participants.	DURATION	May. 11, 2004 ~ Dec. 5, 2004
		LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
		JAPAN INTERNATIONAL COOPERATION CENTER	
		JICA CENTER	
		Okinawa International Center	
		REMARKS	

INTERMEDIATE AND ADVANCED JAPANESE LANGUAGE FOR TECHNICAL COOPERATION 技術協力のための中上級日本語		6 participants J0400422	
OVERALL GOAL / PURPOSE	This course provides Japanese language training for those who have the necessity to use Japanese concerning Japan's technical cooperation programmes. The goals are to be able to (1) communicate with the members of Japanese missions and experts in daily conversation, (2) master Japanese grammars of intermediate level and vocabularies equivalent to the level of 2nd or 3rd grade Japanese Proficiency Test, (3) comprehend the basic vocabularies related to JICA/ODA projects, (4) explain in Japanese the outline of JICA/ODA project which one is engaged in his/her country.	QUALIFICATION OF APPLICANT	
		(1) be engaged in Japan's technical cooperation programmes, at present or in the near future (2) have the necessity to use Japanese concerning the above mentioned occupation after returning to his/her country (3) have 500 basic Japanese vocabulary (4) be under forty (40) years of age	
COURSE CONTENTS	The course curriculum is made to enable participants with 4 basic skills, reading, writing, listening, and speaking. In this course, the emphasis is put on lectures, practice and field trips. The main subjects are: (1) writing practice of Kanji (2) pronunciation (3) basic sentence structure (4) conversation (5) reading and composition skills. We also provide practical training from interviews, speak contests, and project presentation, as well as taking Japanese Proficiency Test to check the improvement of the participants.	DURATION	Aug. 24, 2004 ~ Mar. 27, 2005
		LANGUAGE	COOPERATION PERIOD
		English	2000 ~ 2004
		TRAINING INSTITUTIONS	
		JAPAN INTERNATIONAL COOPERATION CENTER	
		JICA CENTER	
		Okinawa International Center	
		REMARKS	
		Wait at least one year before reapplying for this course in the case of ex-intensive Japanese Language Course participants.	

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