



3. Water Resources / Disaster Management

| Operating Management of Earthquake-Tsunami-Volcano Eruption Observation System 地震津波火山観測システムの運用・管理 | | GROUP | 0980035 |
|---|--|--|---------|
| Target Countries: Countries located in the vicinity of a plate subduction belt or plate collision region | | 6 participants | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>[Objective]</p> <p>This program will upgrade the potential of experts in developing countries by improving earthquake observation technology and the understanding of earthquake generation mechanisms, thus contributing to the implementation of the observation network on earthquake and others.</p> <p>[Expected Results]</p> <ol style="list-style-type: none"> 1) To understand the fundamental theories of Earthquake, Tsunami and Volcano eruption and principles of seismometer, observation system 2) To learn the field practices, the Tsunami early warning system and observation methods used in the case of emergency 3) To understand the international cooperation observation and joint observation in plate subduction zones 4) To improve participants' capacities to apply knowledge and techniques learnt in lectures and practices through their studies on individual topics, and to make Action Plans in order to solve problems in their respective countries | <p>[Target Organizations]</p> <p>Meteorological offices, geographic observatories, seismic research institutes and universities, etc. in charge of earthquake, tsunami and volcano eruption observation</p> <p>[Target Group]</p> <ol style="list-style-type: none"> 1) Mid-ranking officials in charge of observation, researchers or university staff 2) Individuals with good experience and basic knowledge of observation technology and analysis, 3) Individuals with a university-level qualifications to conduct self research by themselves 4) Individuals proficient in speaking and writing English | | |
| CONTENTS | PROGRAM PERIOD | Jul.6.2009 ~ Mar.31.2010 | |
| <p>The training program consists of lectures, practical exercises, and observation trips on the following:</p> <ol style="list-style-type: none"> 1) An earthquake, tsunami and volcano eruption observation system 2) Principles of earthquake, tsunami and volcano eruption 3) Analysis of earthquake, tsunami and volcano eruption records 4) Crustal movement observation and its analysis 5) Real-time observation and its operation 6) Plate tectonics 7) Earthquakes and tsunamis in the plate subduction zone 8) Volcanic eruptions in the plate subduction zone 9) Earthquakes, tsunamis and volcanic eruptions as global disasters 10) Great disasters due to earthquakes, tsunamis and volcanic eruptions and their effects on people's lives 11) Others | IMPLEMENTING PARTNER | Nagoya University | |
| | JICA CENTER | JICA Chubu | |
| | COOPERATION PERIOD | 2006~2010 | |
| | REMARKS | This course is mainly based on individual research to find solutions for the problems in the respective countries. | |


| Non-Revenue Water Management 上水道無収水量管理対策 | | GROUP | 0980229 |
|---|---|---|---------|
| Water Resources/Disaster Management—Comprehensive Water Resources Management | | 15 participants | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>The objective is to learn waterworks maintenance and management activities and the system in Japan as well as developing the capacity to apply them in the participant's home country and duties.</p> <p>Through the program, participants are expected to:</p> <ol style="list-style-type: none"> 1. Acquire a comprehensive knowledge concerning various problems relating to non-revenue water 2. Understand the operation of leakage detectors 3. Understand the classification of leakage prevention works and diagnosis of the water distribution volume 4. Understand leakage prevention planning 5. Understand practical knowledge and techniques for planning, designing, construction and management of leakage prevention measures | <p>[Target Organizations]</p> <ol style="list-style-type: none"> 1. Waterworks bureaus of local government, waterworks public corporations, administration bodies in charge of water resources 2. Special organizations maintaining and managing waterworks systems <p>[Target Group]</p> <ol style="list-style-type: none"> 1. Technology university graduates or equivalent professional qualifications in this field 2. Individuals with at least 5 years of work experience in this field 3. Individuals with a sufficient command of spoken and written English | | |
| CONTENTS | PROGRAM PERIOD | Oct.12.2009 ~ Dec.5.2009 | |
| <ol style="list-style-type: none"> 1. Outline of non-revenue water management 2. Outline of waterworks facilities and leakage prevention 3. Operation of leakage detectors 4. Leakage detection 5. Leakage prevention in the planning stage 6. Leakage prevention in the design stage 7. Leakage prevention in the construction stage 8. Water meter, mapping management, measures for illegal use, water charges 9. Measures in case of disaster | IMPLEMENTING PARTNER | Nagoya Waterworks and Sewerage Bureau, Nagoya City | |
| | JICA CENTER | JICA Chubu | |
| | COOPERATION PERIOD | 2006~2010 | |
| | REMARKS | The applicant should prepare a Country Report when applying. "Non-revenue water" is not defined as illegally used water, thus the program provides opportunities to learn about leakage management technology. http://www.water.city.nagoya.jp/english/ | |


| Seismology, Earthquake Engineering and Disaster Management Policy 地震・耐震・防災政策 | | GROUP  | 0980875 |
|---|--|--|---------|
| Target Countries: Earthquake disaster prone countries | | 20 participants / | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Program Objective】 Fostering researchers and technical experts who are able to address the issues of earthquake disaster mitigation in their own countries making use of results achieved in the training course.</p> <p>【Expected Results】 (1) To acquire fundamental knowledge on earthquakes and are able to explain basic concept and theory about earthquake mechanisms and aseismic design (2) To be able to explain basic concept and principle for earthquake hazard assessment, earthquake disaster mitigation policy, and earthquake countermeasures, which are indispensable for earthquake disaster mitigation. (3) To be able to apply acquired knowledge for solving the earthquake problems of their countries and compile master report based on capacity development for their application.</p> | <p>【Target Organizations】 Administrative agency for construction, national research institute and other organizations on earthquake disaster mitigation</p> <p>【Target Group】 (1) Administrative officers and/or engineers and/or researchers in charge of seismology, earthquake engineering and disaster mitigation. (2) Experience in the relevant field: more than 3 years' experience, (3) To be university graduates in seismology, earthquake engineering or seismic disaster mitigation, or be university graduates in science and technology other than the above mentioned subjects.</p> | | |
| CONTENTS | PROGRAM PERIOD | Sep.28.2009 ~ Sep.18.2010 | |
| <p>Fostering researchers and technical experts who can contribute to the governmental policy on seismology, earthquake engineering and disaster mitigation.</p> <p>【Preliminary Phase】 Participants make an Inception Report on current situation related governmental policy on seismology, earthquake engineering and disaster mitigation in their countries.</p> <p>【Program in Japan】 Participants are expected to acquire the necessary skill and technique related governmental policy on seismology, earthquake engineering and disaster mitigation through lectures, discussions, research, practical exercises and site visits, etc. (1) Earthquake mechanisms and aseismic design (2) Technologies on seismic hazard assessment, countermeasures and policy making on earthquake disasters (3) Compilation of Master Report</p> | IMPLEMENTING PARTNER | Building Research Institute (BRI) | |
| | JICA CENTER | JICA Tsukuba | |
| | COOPERATION PERIOD | 2009~2011 | |
| | REMARKS | Participants, who have successfully achieved required credits, will be awarded a Master's Degree, 'Master of Disaster Mitigation', by GRIPS and BRI. | |


| Disaster Risk Management Technology on Volcanic Eruption, Debris Flow and Landslide 火山学・総合土砂災害対策 | | GROUP  | 0980876 |
|---|--|--|---------|
| Target Countries: Volcanic and/or Sediment-related Disaster prone countries | | 13 participants / | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objective】 Participants are to be expected to improve their technology on volcanic observation or Sabo and be able to enhance their capacity on taking counter measures to the disaster prevention/mitigation of their countries.</p> <p>【Expected Results】 【Common Program】 understand and be able to explain: (1) basic common knowledge (2) administration of disaster management in consideration of inhabitants' participation 【Volcanology Course】 understand and be able to explain: (1) latest geophysical and geological concept of volcanology (2) theories of volcanic earthquakes (3) volcano observation (4) individual training/research based on interest of each participant and presentation of a final report. 【Sabo Course】 understand and be able to explain: (1) Sabo (2) mechanism of debris flow (3) disaster prevention measures (4) environmentally sound comprehensive sediment management (5) individual training/research based on interest of each participant and presentation of a final report.</p> | <p>Ministry of Public Works, Ministry of Water Resources, Institute of Volcanology, Seismology, Geology or Geophysics.</p> | | |
| CONTENTS | PROGRAM PERIOD | Mar.15.2010 ~ Sep.1.2010 | |
| <p>This course is to improve participants' technology on volcanic observation or Sabo who will be keypersons in those field..</p> <p>(1) understand basic common knowledge of volcanology and SABO</p> <p>field inspection (2) basic knowledge of volcanology phenomena of volcanic eruptions methodology of observation (3) individual training/research for four months and making a final report. (4) basic knowledge of Sabo engineering structural measures non-structural measures</p> <p>field inspection (5) individual training/research for two and half months and making a final report.</p> | IMPLEMENTING PARTNER | Sabo Technical Center | |
| | JICA CENTER | JICA Tokyo | |
| | COOPERATION PERIOD | 2009~2011 | |
| | REMARKS | Throughout the whole training period, "Review and Discussion" session will be arranged on the turning point of the training. Each participant makes the report on the situation / status after returning to the country, | |


| Global Seismological Observation グローバル地震観測 | | GROUP | 0980887 |
|--|---|-----------------------------------|---------|
| Water Resources/Disaster Management—Earthquake Disaster | | | |
| | | 10 participants | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objective】 Participants will be able to play important roles (global seismological observation, data analysis and report) in the monitoring system for nuclear tests.</p> <p>【Expected Results】 (1) To Acquire knowledge of the Comprehensive Nuclear-Test-Ban Treaty (CTBT) regime and the role of seismology in the International Monitoring System (IMS). (2) To understand global seismological observation technologies for monitoring nuclear tests and earthquakes. (3) To acquire data analytical techniques to discriminate nuclear tests from natural earthquakes. (4) To make the Action Plans, which they should do in their country after return home country.</p> | <p>【Target Organization】 Governmental organizations in charge of Seismological, Geophysical and/or Meteorological Section</p> <p>【Target Group】 - Administrative officer in charge of Seismological, Geophysical and/or Meteorological Section in governmental organizations - Experience in the relevant field: more than 3 years' experience - To be well versed in basic mathematics such as differentiation and integration</p> | | |
| CONTENTS | PROGRAM PERIOD | Jan.6.2010 ~ Mar.6.2010 | |
| <p>【Preliminary Phase】 Participants will make an Inception Report on the current situation of the global seismological observation in their country.</p> <p>【Program in Japan】 This program consists of lectures, practical exercises and field studies. The subjects are as follows: (1) Introduction of the CTBT regime concerning seismology, (2) Introduction to UNIX, (3) Source mechanism, (4) Seismic array data analysis, (5) Installation of LINUX, (6) Characteristics and Progress Status of the International Monitoring System of the CTBTO, (7) Instrumentation and Observation of Seismometer, (8) Data processing, (9) Analysis of teleseismic waves, (10) Seismicity and tectonics, (11) Discrimination by mb-Ms, (12) Observation and practice of seismic array, (13) Discrimination by short-period seismograms, (14) General discrimination technique, etc</p> | IMPLEMENTING PARTNER | Building Research Institute (BRI) | |
| | JICA CENTER | JICA Tsukuba | |
| | COOPERATION PERIOD | 2009~2011 | |
| | REMARKS | | |


| Engineering on Water Supply Systems 上水道施設技術 | | GROUP | 0980944 |
|---|--|---|---------|
| Water Resources/Disaster Management—Urban Water Supply | | | |
| | | 18 participants | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objective】This course aims at developing capacity of engineers who take leadership roles in the planning and design of water supply systems or operation and maintenance of water supply. Particular focus shall be given to the planning skill of water supply systems.</p> <p>【Outcomes】 Through the training course, participants are expected: 1) To gain the skill of basic planning and design for water supply systems, 2) To acquire comprehensive knowledge on water supply systems, which is required for planning, operation and maintenance, 3) To understand systems for waterworks and functions and roles of related organizations, 4) To formulate an Action Plan based on 1)~3) for improving water supply planning or design in their own countries</p> | <p>【Target Organizations】 Departments responsible for water supply planning or designing under water supply utility, national or local government (excluding mechanical and electric departments)</p> <p>【Target Groups】 (1) Individuals presently in a management position or senior engineers with currently or expected to be engaged in the formulation of waterworks plan, (2) Engineers with more than 5 years of experience in water supply systems (3) University graduates from the faculty of engineering such as civil, sanitary, environmental, or with equivalent academic background</p> | | |
| CONTENTS | PROGRAM PERIOD | May.19.2009 ~ Aug.5.2009 | |
| <p><Preliminary phase> Making a Country Report describing job outlines, problems of water utilities and the status of their service. After receiving acceptance notice, participants make the 1st version of Action Plan. <Core Phase in Japan> Lectures, field visits, discussion, practice and presentation in the following subjects: 1) Planning and design for water supply systems 2) Outline of water supply systems Water Resources, Intake facility of Surface Water, Water Purification Technology, Water Quality Control, Pumping Facility, Layout of Water Distribution Facilities, Construction of Water Supply and Distribution Facilities, Water Distribution Management, Water Leakage Reduction 3) Systems for waterworks and organizations concerned 4) Formulation of an Action Plan (2nd and Final version)</p> | IMPLEMENTING PARTNER | JAPAN WATER WORKS ASSOC. | |
| | JICA CENTER | JICA Tokyo | |
| | COOPERATION PERIOD | 2005~2009 | |
| | REMARKS | This program targets officers of water utilities. Those with no working experience at water utilities, such as researchers or administrative officers in the ministries, may not be suited for the program. | |


| Water Supply in Small and Medium Scale Cities in Central Asia 中央アジア地域 中小規模都市給水 | | R/F |  | 0984027 |
|---|---|--|---|---------|
| Water Resources/Disaster Management—Urban Water Supply | | | | |
| Target Countries: Central Asia; Kazafstan, Tajikistan, Uzbekistan, and Kirgiztan | | 10 participants / | | Russian |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | | |
| <p>【Objectives】</p> <p>1. Participants from different countries will share their experiences in tackling their common problems with a limited budget, i.e. the management of complicated waterworks facilities constructed under the former Soviet Union.</p> <p>2. Participants will gain a significant understanding of their problem in management and technical aspects and will prepare and present a Study Report to improve their waterworks management.</p> <p>【Outputs】</p> <p>1. Gain knowledge about the management of the water supply system in Japanese local cities, by studying the case of Yokohama City</p> <p>2. Enhance general waterworks techniques</p> <p>3. Through the above, find the keys to solve the problems on water supply systems in participants' country</p> | <p>【Target Organizations】Waterworks Utilities at Small and Medium Scale Cities in the following areas;</p> <p>Kazakhstan: North Kazakhstan Province and Akmora Province</p> <p>Tajikistan: Dushanbe and Khatlon Oblast</p> <p>Uzbekistan: Tashkent Province, Fergana Province, and the Republic of Karakalpakstan</p> <p>Kyrgyz: Issik-Kul Province and Osh Province</p> <p>【Target Group】</p> <p>Senior engineers of the target organizations.</p> | | | |
| CONTENTS | PROGRAM PERIOD | Jan.13.2010 ~ Feb.11.2010 | | |
| <p>This year, the curriculum is mainly focused on technical matters (No. 3 of the below), and in general the curriculum covers the followings;</p> <p>1. Lectures; Management of Yokohama waterworks bureau (Japan's waterworks services, water rights, water resource and water quality control in Yokohama City, and the management of sewage)</p> <p>2. Lectures; Planning, operation, and administration of Yokohama waterworks bureau (tariff, operation, and human resource development)</p> <p>3. Lectures; Waterworks Techniques of Yokohama waterworks bureau (control of water purification plant, water purification, water quality control, water distribution control, and water leakage control)</p> <p>4. Observations; Waterworks facilities, construction place, and sewage plant in Yokohama City and others</p> <p>5. Presentations; Country report at the first stage of the course and Study Report at the final stage of the course</p> | IMPLEMENTING PARTNER | Yokohama Waterworks Bureau | | |
| | JICA CENTER | JICA Yokohama | | |
| | COOPERATION PERIOD | 2006~2010 | | |
| | REMARKS | <p>A maximum of three per country will be able to participate in the course. The target group shall be changed as follows:</p> <p>2006: Executuve Manager</p> <p>2007: Manager</p> <p>2008-2010: Senior engineer</p> | | |


| Disaster Prevention Management for Central Asia and Caucasus 中央アジア・コーカサス地域防災行政 | | R/F |  | 0984047 |
|---|---|---------------------------------|---|---------|
| Water Resources/Disaster Management—Comprehensive Disaster Management | | | | |
| Target Countries: Central Asia and Caucasus | | 11 participants / | | Russian |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | | |
| <p>【Objectives】Participants are expected to understand the present situation and issues in his/her country before participating in the program, and to draft a plan to improve the system of disaster prevention in his/her organization at the end of the program.</p> <p>【Outputs】(1) To understand the issue for improvement of disaster management in his/her country through the system, current situation, vision and issue Japanese government faces. (2) To understand the issue for improvement of disaster management in his/her country through the system, current situation, vision and issue local government in Japan faces. (3) To understand the issue for improvement of disaster management in his/her country through the significance, current situation, vision and issue of non governmental sector such as mass media, private sector and community in disaster management (4) To consider the formulation and implementation of action plan for improving disaster management from the point of promoting regional cooperetaion.</p> | <p>【Target Organization】</p> <p>Ministries or departments in charge of disaster prevention</p> <p>【Target Group】</p> <p>– Administrative officials of central or regional governments in charge of disaster prevention (Engineering officials, scientific officials and researchers are NOT expected as a part of the target group)</p> <p>– Experience of more than 2 years in the field of disaster prevention is required</p> <p>– Be able to submit the report about post-training activities in 6 months after returning to their home countries.</p> | | | |
| CONTENTS | PROGRAM PERIOD | Jun.28.2009 ~ Aug.8.2009 | | |
| <p>Basic concept of disaster prevention,</p> <p>Measures taken for earthquakes,</p> <p>Measures taken for sediment disasters,</p> <p>Disaster prevention management of Japanese central government,</p> <p>Disaster prevention management of Hyogo Prefecture,</p> <p>Lessons learned in the Great Hanshin-Awaji Earthquake,</p> <p>Observation of disaster drills,</p> <p>Role of mass media in disasters,</p> <p>Disaster prevention in enterprises,</p> <p>Disaster prevention in lifelines (electricity and gas),</p> <p>Workshop for formulating action plans, and</p> <p>Presentation of action plans to improve the system of disaster prevention.</p> | IMPLEMENTING PARTNER | Asian Disaster Reduction Center | | |
| | JICA CENTER | JICA Hyogo | | |
| | COOPERATION PERIOD | 2007~2009 | | |
| | REMARKS | | | |


| Management of Medical Service in Disaster for Andean countries アンデス地域災害医療マネジメント | | R/F |  | 0984118 |
|---|---|---|---|---------|
| | | Water Resources/Disaster Management—Comprehensive Disaster Management | | |
| Target Countries: Andean countries | | 13 participants / | | Spanish |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | | |
| 【Objective】 The objective of this course is to formulate action plan on improving the management system integrated both administration and medical services in disasters 【Outputs】 To achieve above objective, participants expected to understand the following; (1) Policies and measures on disaster prevention of Japanese government and Hyogo prefecture (2) Coordination between administration and medical services at the time of disaster (3) Disaster medicine (4) Disaster prevention in community and region | 【Target Organizations】 Organizations related to disaster medical care or emergency medicine 【Target Group】 – Officials in charge of disaster medical care in central or regional governments – Medical staff of emergency medical facilities such as doctors, nurses, paramedics, who are engaged in disaster medical care. – More than 2 years of work experience in the field of disaster medical care is required. – Be able to disseminate knowledge, experiences and techniques acquired from this training course after returning to their home countries | | | |
| CONTENTS | PROGRAM PERIOD | Oct.12.2009 ~ Nov.28.2009 | | |
| Disaster prevention in Japan and in Hyogo Prefecture, coordination between administration and medical services in disasters, response to disaster, disaster prevention in regions and drafting of action plans to improve management system between administration and medical services in disasters. This will include: Disaster prevention in Japan and in Hyogo Prefecture, emergency medical care in Japan, health care services in Japan, lessons learned at Great Hanshin-Awaji Earthquake, coordination between administration and medical services in disasters, role of Hyogo Emergency Medical Center, disaster nursing, development of community, health care services in disasters, observation of disaster drills, discussions with related organizations, observation trips to other areas in disaster, and workshop for formulation of action plans. | IMPLEMENTING PARTNER | Hyogo Emergency Medical Center | | |
| | JICA CENTER | JICA Hyogo | | |
| | COOPERATION PERIOD | 2007~2009 | | |
| | REMARKS | | | |

| Control de Desastres 中米防災対策 | | R/F |  | 0984133 |
|--|---|---|---|---------|
| | | Water Resources/Disaster Management—Comprehensive Disaster Management | | |
| Target Countries: Central America | | 12 participants / | | Spanish |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | | |
| 【Objectives】 To develop awareness of disaster prevention and to promote disaster reduction management by cooperation between various organizations involved in disaster prevention – central government, local governments, research institutes and civic organizations. Especially, to develop capability of central and local governments to respond to disasters is aimed in this course. 【Outputs】 (1) To understand the examples and planning method of social development considering disaster prevention and mitigation. (2) To understand the phenomenon and information dissemination (3) To understand collaboration between central and local government and collaboration with citizen, community and research institutions. (4) To understand the raising public awareness in community. (5) To understand the methodology and role of mass media for disaster prevention. | 【Target Organizations】 Ministries in charge of disaster prevention / mitigation and local government 【Target Group】 1. Officials who are in charge of disaster prevention / mitigation in the central or local government (it is preferable that 1 participant from central government and 1 from local government participate from each country) 2. 2 or more years of work experience as a governmental official in the field of disaster prevention/mitigation | | | |
| CONTENTS | PROGRAM PERIOD | Oct.31.2009 ~ Dec.5.2009 | | |
| 【Third Country Phase before arriving in Japan】 Pre-course will be held by ex-participant of this course, CEPREDENAC etc. (1) To understand objective, activity and outcome of the course in Japan through understanding the activities by ex-participants (2) PCM method and problem analysis 【Core Phase in Japan】 – Disaster Risk Management in Japan – Overview of Great Hanshin Awaji Earthquake and recovery – Natural disaster and mass media – Disaster prevention education and raising awareness of disaster prevention of residents – Workshop based on Project Cycle Management (PCM) /Analysis of problems – Action plan | IMPLEMENTING PARTNER | Disaster Reduction and Human Renovation Institution | | |
| | JICA CENTER | JICA Hyogo | | |
| | COOPERATION PERIOD | 2005~2009 | | |
| | REMARKS | | | |

| Mental Health Services after Disaster for Asian Countries アジア地域災害後のメンタルヘルスサービス | | R/F |  | 0984139 |
|--|---|--------------------------------------|---|---------|
| Water Resources/Disaster Management—Comprehensive Disaster Management | | | | |
| Target Countries: Asian countries often affected by natural disasters | | 8 participants / | | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | | |
| <p>【Objective】 To develop action plans for mental health care services after disaster in each country</p> <p>【Outputs】 To achieve above objective, participants is expected to understand the following issues;</p> <p>(1) Traumatic stress (2) Current state of post-disaster mental health care services (3) Methods for evaluating traumatic stress (4) Affects that actual situations can have on aid workers and how to care for them (5) Actual state of intervention and therapy for victims</p> | <p>【Target Organizations】 Organizations playing an important role in public health activities at community level.</p> <p>【Target Group】 Doctors, psychiatrists, clinical psychologists, nurses and hygienists who play an important role in public health activities at community level.</p> <p>More than 3 years of work experience in the field of disaster prevention is required.</p> | | | |
| CONTENTS | PROGRAM PERIOD | Dec.3.2009 ~ Dec.18.2009 | | |
| <p>(1) Traumatic Stress and PTSD/ Psychological Effects of Disaster/ Grief and Its Pathology/ Long-term Effects (Secondary Symptoms) (2) Hanshin - Awaji Earthquake/ Building Services after the Taiwan Earthquake/ Other Disasters in Japan/ Correlations to General Medical Care/ Disaster and Mental Health Care Activities & System in Japan after the Hanshin- Awaji Earthquake (3) Clinical Diagnosis/ Structured Interviews and Self-Rating Depression Scale/ Screening Methods for Local Health Care (4) Critical Incident Stress/ Secondary Traumatic Stress / Methods of Self-Care (5) Early Intervention/ Children and Disasters/ Long-Term Intervention at Schools/ Therapy and Intervention Methods for PTSD/ Therapy Methods</p> | IMPLEMENTING PARTNER | Hyogo Institute for Traumatic Stress | | |
| | JICA CENTER | JICA Hyogo | | |
| | COOPERATION PERIOD | 2007~2009 | | |
| | REMARKS | | | |


| Waterworks Engineering for Caucasus and East Asia Regions コーカサス・東アジア地域 寒冷地水道 | | R/F |  | 0984143 |
|---|---|------------------------------------|---|---------|
| Water Resources/Disaster Management—Urban Water Supply | | | | |
| Target Countries: Caucasus, Mongolia, and Central Asia | | 5 participants / | | Russian |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | | |
| <p>【Objective】 Each participant shares and implements its action plan, and reports progress to JICA</p> <p>【Expected Modules】 (1) To acquire knowledge and experiences to improve waterworks Planning in the participant's country (2) To acquire knowledge and experiences to improve waterworks management in the participant's country (3) To acquire knowledge and experiences to improve water treatment in the participant's country (4) To acquire knowledge and experiences to improve leak Prevention in the participant's country (5) To acquire knowledge and experiences to improve water quality control in the participant's country</p> | <p>【Organizations】 Governmenta, semi-governmental, or corporate organizations in charge of public water supply</p> <p>【Personal Qualifications】 <Current Duties> Be waterworks engineers <Experience> at least 3 years of practical experience for those university graduate or equivalent; OR have at least 7 years of practical experience for those polytechnic graduates or equivalent <Age> Under 40 years old</p> | | | |
| CONTENTS | PROGRAM PERIOD | Jan.13.2010 ~ Mar.6.2010 | | |
| <p>【Preparatory Phase】 Prepare country report and submit map of water distribution 【Core Phase】 <Subject Per Module> (1) Planning and maintenance of waterworks facilities, design of waterworks facilities, advanced water treatment (2) Plan and maintenance of distribution system and pipes, design pipe network using basic software (3) Water treatment process, facility management, water quality practice (4) Overall management, planning, facility usage and management (5) Methods of water control, hands-on training on water quality control (6) Formulation and Presentation of "Action Plan" 【Finalization Phase】 Within 6 months, every participant is requested to present AP and share its expexperience in Japan at home organization, then reports AP progress to JICA</p> | IMPLEMENTING PARTNER | Waterworks Bureau, City of Sapporo | | |
| | JICA CENTER | JICA Sapporo | | |
| | COOPERATION PERIOD | 2005~2009 | | |
| | REMARKS | | | |


| Comprehensive Strategy for Recovery from Natural Disasters for Middle East and Asian countries –Lessons Learned from the Great Hanshin-Awaji Earthquake Case 中東・アジア地域 自然災害からの復興戦略～阪神・淡路大震災現場からの教訓 | | R/F |  | 0984219 |
|---|---|---|---|--------------------------|
| Target Countries: Countries often affected by natural disasters | | Water Resources/Disaster Management – Comprehensive Disaster Management | | 5 participants / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | | |
| 【Objectives】 Specific action plans for recovery from disasters in each country with an eye to “social capital” are created. 【Outputs】 (1) To understand the issues (disaster emergency response, recovery, and reconstruction) that arose in the time sequence after disasters. (2) To understand the PDCA (Plan, Do, Check, and Act for improvement) Cycle in efforts for reconstruction. (3) To understand the importance of the concept of “social capital” from the experience of role sharing among residents, business operators, and administrative bodies in efforts to solve the problems. (4) To understand new viewpoints (efforts of individuals and communities, infrastructure development, and crisis-control structure) to develop safe towns. (5) To create action plans for reconstruction from disasters in their countries. | 【Target Organizations】 Authorities related to reconstruction from disasters or to emergency management in countries where natural disasters frequently occur 【Target Group】 Decision makers on the site of recovery from disasters/ Officials who are highly motivated and in a position that enables them to become involved with the formulation of recovery plans from disasters and to promote them in their countries/ Officials who will continue to become involved with the formulation of recovery plans from disasters and to promote in their countries after the completion of this training program | | | |
| CONTENTS | PROGRAM PERIOD | Jan.11.2010 ~ Feb.27.2010 | | |
| (1) Outline of the Great Hanshin-Awaji Earthquake/ Damages and emergency response in each field/ Visit on monument to the Great-Hanshin Awaji Earthquake/ Study on other disaster damage cases/ Outline of natural disasters in participants' countries (2) Recovery plan/ Promotion of recovery plan/ Actions taken to the issues at each period from the time of disaster emergency response to that of recovery or reconstruction and evaluations/ Case examples; public utility services including electricity, gas, and telephone/ Recovery and reconstruction plan in the participants' countries (3) Significance of social capital/ Case examples of “mutual help” by enterprises, NGOs, volunteers, and local communities/ Redevelopment projects (readjustment of town lots) and residents/ Mutual help in the participants' countries (4) Development of safe towns/ Creation of safe cities in each countries (5) Action plans for the respective countries Session to exchange views between the Kobe City officials and the participants | IMPLEMENTING PARTNER | Kobe Institute of Urban Research, Kobe International Center for Corporation and Communication | | |
| | JICA CENTER | JICA Hyogo | | |
| | COOPERATION PERIOD | 2007~2009 | | |
| | REMARKS | | | |


| Integrated Arsenic Mitigation for Asian countries アジア地域総合的砒素汚染対策 | | R/F |  | 0984223 |
|---|--|--|---|--------------------------|
| Target Countries: Asia | | Water Resources/Disaster Management—Rural Water Supply | | 6 participants / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | | |
| Overall goal of the training course is implementation of integrated arsenic mitigation designed through the course in central/local governments. At the end of the program, the participants are expected to achieve the following; (1) To learn serious damage by arsenic contamination understanding the experience of arsenic problem in Torokukuro (2) To gain basic knowledge acquiring analysis techniques of arsenic (3) To understand the environmental pollution and health damage by arsenic contamination in Asian countries through lectures of the projects implemented by Asia Arsenic Network (4) To propose a basic strategy for integrated arsenic mitigation | 【Target Organizations】 Organizations (Governmental/NGO) responsible for arsenic mitigation 【Target Group】 (1) Specialists (doctors, engineers, chemists) who presently work in arsenic mitigation, with more than 3 years of experience (2) (Preferably) under the age of 45 | | | |
| CONTENTS | PROGRAM PERIOD | Oct.12.2009 ~ Dec.6.2009 | | |
| Following lectures, observations and practices are scheduled to achieve the objective. (1) Patient relief by trail, Role of document, History of Minamata disease (2) Arsenic Contamination of Groundwater, Chemistry of Arsenic, Arsenic and Microbes, Arsenic Analysis I (3) Safe Water Supply, Project on enhancement and citizen participation, etc. (4) Job report presentation, Action Plan presentation | IMPLEMENTING PARTNER | Asia Arsenic Network | | |
| | JICA CENTER | JICA Kyushu | | |
| | COOPERATION PERIOD | 2007~2009 | | |
| | REMARKS | Expected number of participants per country : 1 - 2 | | |

| Integrated Water Resources Management for Middle East 中東地域統合の水資源管理 | | R/F | 0984233 |
|--|--|---------------------------|---------|
| Water Resources/Disaster Management—Comprehensive Water Resources Management | | | |
| Target Countries: Middle East | | 12 participants | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objective】This course aims at the capacity development of the participants on the planning and implementation of IWRM.</p> <p>【Outputs】</p> <p>(1)To be able to explain the concept of IWRM</p> <p>(2)To understand causes of water conflicts among sectors, up-and-downstream basins and regions</p> <p>(3)To be able to explain the skills for monitoring and assessment of water resources potential and demand</p> <p>(4)To understand the skills for planning of integrated water resources management and to explore the skills to ease water conflicts</p> | <p>【Target Organizations】 Ministry of Water (Irrigation)</p> <p>【Target Group】 1. Engineers and/or officers in charge of river/water resources management/administration</p> | | |
| CONTENTS | PROGRAM PERIOD | Mar.30.2010 ~ Apr.22.2010 | |
| <p><Preliminary phase> Formulation and submission of country report and preparation of country report presentation</p> <p><Core Phase in Japan> (1)Outline of IWRM, Global warming issues and its impactWater resources and environment (2)Country Report PresentationWater conflict in JapanWater conflict in the WorldCase Study on Conflict Management (3)Development, Utilization and Management of Surface WaterDevelopment, Utilization and Management of Groundwater,Utilization of Non-conventional water (reclaimed water, desalination, etc.), Water demand management (domestic water and agricultural water), Public Relationship on water resources, etc. (4)IWRM planning with conflict management, Consensus building for river development plan, Discussion on Conflict Management Decision Support System(DSS) for Water Resources Management, Water resources administration system and legislation in Japan</p> | IMPLEMENTING PARTNER | Japan Water Agency | |
| | JICA CENTER | JICA Tokyo | |
| | COOPERATION PERIOD | 2007~2009 | |
| | REMARKS | | |

| Development and utilization of mitigative technologies for slope-induced disasters in developing countries (Master's or Doctor's Degree: Engineering) 開発途上国のための斜面災害軽減技術の構築と普及(長期) | | L/T | 0981113 |
|--|---|--|---------|
| Water Resources/Disaster Management—Soil and Water Disaster | | | |
| Target Countries: Countries where countermeasures against the slope failure is needed | | 2 participants | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objectives】 Trainees complete course-work requirements, with an emphasis on geotechnical engineering, and carry out research which proposes technology and social systems that facilitate such self defense as mitigation of slope-failure disasters. Accordingly, the trainees become able to push forward the said disaster mitigation framework after coming back to home countries.</p> <p>【Outputs】</p> <p>(1) Course work on subjects such as geotechnical engineering</p> <p>(2) Case study on real slope failure</p> <p>(3) Research work on slope failure by model tests or material strength tests</p> <p>(4) Study on practical self defense against natural disaster, conducted in trainee's home country</p> | <p>【Target Organizations】 University or public research institute which develop young researchers and/or engineers and also are involved in disaster administration in the country</p> <p>【Target Group】 Age: under 30 years old. Application for Master's or Doctor's can be acceptable.</p> | | |
| CONTENTS | PROGRAM PERIOD | Mar.15.2010 ~ Mar.14.2012 | |
| <p>(1) Foundation Engineering, Principles of Soil Mechanics, Geotechnical Engineering, Geotechnical Earthquake Engineering etc.</p> <p>(2) Case study on real slope failure with special attention on topography and soil conditions. Laboratory tests, if necessary, on soil samples collected from sites. Case study on real slope failure, assisted by specialists, gives the trainee a good opportunity to learn the reality of slope failure and to develop a professional capabilities.</p> <p>(3) Model tests and/or material tests are carried out in order to propose the use of inexpensive field monitoring equipments as well as logics of warning of urgent slope failure. The output from this work constitutes the main body of a master (doctoral) thesis.</p> <p>(4) The self defense against natural disaster is the final goal of the program. The self defense is supported by local people in such aspects as installation, maintenance, and operation of field monitoring equipments as well as execution of emergency warning and evacuation. This study also becomes a part of thesis.</p> | IMPLEMENTING PARTNER | Department of Civil Engineering, The University of Tokyo | |
| | JICA CENTER | JICA Tokyo | |
| | COOPERATION PERIOD | 2008~2010 | |
| | REMARKS | | |

| Satellite Remote Sensing Data Analysis Technology for Disaster/Environmental Monitoring 災害・環境監視のための衛星リモートセンシングデータ解析技術 | | GROUP  0980068 |
|--|---|---|
| Target Countries: countries hoping for disaster/environment monitoring with SAR technology | | Water Resources / Disaster Management—Other Water Resources / Disaster Management Issues 10 participants / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
| <p>Objective</p> <p>This program enables technicians and researchers to analyze SAR and other remote sensing data as a tool leading to solutions for disaster/environmental problem in their respective countries.</p> <p>Output</p> <p>To achieve the above Program Objective, participants are expected;</p> <ol style="list-style-type: none"> 1) To be able to explain the principle and analysis method of SAR and other data, 2) To be able to carry out basic and advanced processing of SAR data, 3) To be able to apply SAR and optical sensor data to disaster/environmental monitoring and integrate the data into map information, and 4) To be able to make case study analysis and report the result by using SAR and other data. | <p>Eligible / Target Organization:</p> <p>This program is designed for Governmental organizations hoping for disaster/environment monitoring by means of improving remote sensing data analysis, especially SAR technology. And it is desirable that the organizations are prepared or planning systems and working environments that facilitate propagation and utilization of learned techniques.</p> <p>Nominee Qualifications:</p> <p>Applying Organizations are expected to adequately select nominees. Nominees must;</p> <ol style="list-style-type: none"> (1) be university graduates, or the equivalent with a fundamental knowledge of physics and mathematics, (2) be technicians or researchers in the field of remote sensing, associated with organizations of disaster/environmental management, (3) have more than three (3) years experiences in optical digital data/image analysis, but have little experience in SAR digital data/image analysis, (4) be under forty (40) years of age in principle. | |
| CONTENTS | PROGRAM PERIOD | Aug.4.2009 ~ Sep.12.2009 |
| <p>Preliminary Phase:</p> <ol style="list-style-type: none"> (1) Self study (2) Preparation for Presentation of Inception Report <p>Core Phase in Japan:</p> <ol style="list-style-type: none"> (1) Inception Report Presentation (2) Principles and analysis method of SAR and other data <ul style="list-style-type: none"> - Introduction of remote sensing and ALOS data - Theory of SAR, data correction (3) Basic and advanced processing of SAR and Optical Sensor data <ul style="list-style-type: none"> - SAR image interpretation - Radiometric and Geometric correction - Image processing from raw data - Theory of interferometric SAR (InSAR) and polarimetric SAR (PolSAR) - SAR analysis (4) Integration of disaster/environmental SAR and Optical Sensor data into geographic information <ul style="list-style-type: none"> - Applied analysis of SAR and optical data for disaster monitoring - Applied analysis of SAR and optical data for environment monitoring - Integrated use of the analysis result and map information (5) Output Presentation by using SAR and other data analysis <ul style="list-style-type: none"> - Case study analyses with respective countries' data - Presentation and discussion <p>Finalization Phase:</p> <p>Participant</p> <ol style="list-style-type: none"> 1) Presentation of his/her output 2) Development of teaching materials <p>Participating organization</p> <ol style="list-style-type: none"> 3) Submission of teaching materials, comments and Action Plan | IMPLEMENTING PARTNER | Remote Sensing Technology Center of Japan |
| | JICA CENTER | JICA Tokyo |
| | COOPERATION PERIOD | 2008~2010 |
| | REMARKS | |


| Urban Waterworks Engineering 都市上水道技術者養成 | | GROUP  0980083 |
|---|---|---|
| Target Countries: African Countries | | Water Resources/Disaster Management—Urban Water Supply 10 participants / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
| <p>【Objectives】 Participants acquire wide knowledges about waterworks and get abilities to improve the waterworks in respective countries with integrated views, and also share those with colleague after completion of the training in Japan.</p> <p>【Outputs】 (1) To understand the system of purification plants and purified water processes (2) To understand water transmission and distribution system, and maintenance including water leakage control (3) To understand securing good water resources and water quality control (4) To get ideas on the effective management of waterworks considering environmental condition (5) To prepare and present an Action Plan using what have been acquired through the course</p> | <p>【Target Organizations】 Organization of mainly managing waterworks 【Target Group】 Current Duties: be senior technical officers in charge of waterworks engineering in central or provincial government, or in local bodies. Experience in the relevant field: have at least ten (10) years of practical experience. Age: recommended to be between thirty-five (35) and fifty (50) years.</p> | |
| CONTENTS | PROGRAM PERIOD | Oct.6.2009 ~ Oct.31.2009 |
| <p>(1) Lectures and practices regarding the techniques of purified water processes and design of purification plant for operating and maintaining purification plant (2) Lectures and practices by providing the examples of water transmission and distribution system, and maintenance method including water leakage control. (3) Lectures and practices for securing good water resources and water quality control (4) To learn examples in Japanese knowledge and know-how for effective management of waterworks considering environmental condition (5) To prepare and present an Action Plan to be approved by participants' organization by the effort of each participant, using knowledge, techniques, and ideas acquired through the course</p> | IMPLEMENTING PARTNER | Yokohama Waterworks Bureau |
| | JICA CENTER | JICA Yokohama |
| | COOPERATION PERIOD | 2008~2010 |
| | REMARKS | |


| Disaster Mitigation, Preparedness and Restoration for Infrastructure インフラ施設の自然災害に対する抑止・軽減対策及び復旧対策 | | GROUP  | 0980221 |
|---|---|---|---------|
| | | Water Resources/Disaster Management—Comprehensive Disaster Management | |
| | | 15 participants | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| Participants in this training program will focus on the following 5 points to learn and utilize them in respective countries: 1. Disasters and their characteristics 2. Disaster prevention and restoration systems 3. Disaster prevention and mitigation methods 4. Disaster restoration methods 5. Infrastructure and disaster | (1) University graduates or with equivalent qualifications in infrastructure management, i.e. civil engineering, and with at least 3 years of experience in management, including administration of disaster mitigation (2) Officials of central or local government who hold, or will assume positions in charge of restoration works in the event of major disaster (3) Age: under 40 years old | | |
| CONTENTS | PROGRAM PERIOD | May.11.2009 ~ Jul.25.2009 | |
| This program includes lectures and practices on (1) the outline of the great Hanshin earthquake (2) the mechanism of earthquake disaster (3) aseismatic technology (4) predicting earthquake (5) mechanisms of ordinary disasters in rivers and roads (6) a disaster prevention plan (7) a disaster-prevention-city plan (8) activities during the initial stage and rescue system (9) evacuation measures (10) protection of lifeline (11) communication during disasters (12) disaster prevention (13) disaster rescue method and its application (14) administrative work of reconstruction for restoration (15) making an action plan for prevention of disaster individually (disaster restoration plan) * Participants are required to make and present an action plan at the end of the program. * The contents of the program above will be subject to change according to the disaster types encountered by the Target Countries. | IMPLEMENTING PARTNER | Public Association for Construction Services, Kinki Region | |
| | JICA CENTER | JICA Osaka | |
| | COOPERATION PERIOD | 2006~2010 | |
| | REMARKS | | |


| Waterworks Engineering 水道技術者 | | GROUP  0980763 |
|--|--|--|
| | | Water Resources/Disaster Management—Urban Water Supply |
| | | 8 participants / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
| <p>【Objective】 Every participant shares and implements its action plan, and then reports progress to JICA</p> <p>【Expected Outputs】 1) To acquire knowledge and experiences to improve water treatment facilities and water treatment method in the participant's country. 2) To acquire knowledge and experiences to improve water distribution, service installation, and maintenance system in the participant's country. 3) To acquire knowledge and experiences to improve leak prevention in the participant's country. 4) To acquire knowledge and experiences to improve water quality control in the participant's country. 5) To draft an Action Plan to clarify how to apply training in Japan</p> | <p>【Target Organization】 Governmental, semi-governmental, or corporate organizations in charge of public water supply.</p> <p>【Personal Qualification】 <Current Duties> Be Waterworks engineers <Experience> At least three (3) years of practical experience for those university graduate or equivalent; OR at least seven (7) years of practical experience for those polytechnic graduates or equivalent <Age> Under 40 years old</p> | |
| CONTENTS | PROGRAM PERIOD | Jun.30.2009 ~ Sep.19.2009 |
| <p>【Preparatory Phase】 Each participant prepares Country Report and submits map of water distribution</p> <p>【Core Phase】 <Subject per Module> (1)<Lecture>planning and maintenance of waterworks facilities, outline and design of waterworks facilities, advanced water treatment (2) <Lecture>plan and maintenance of distribution system and pipes, design pipe network using basic software, service installations, pipe network analysis of distribution <Practice>installation of distribution pipes, service installations (3) <Lecture> water leak prevention <Practice>water leak prevention (4) <Lecture>water quality control, ground water resources <Practice> water quality control, jar test, water quality assessment with aquatic organism, survey of ground water resources ※General topics; outline of water supplies in Japan and Sapporo, financial system of waterworks (contracts and water charge) environmentally-conscious business management, water circulation and its risks, human resource development in waterworks organization in developing countries (5) weekly discussion, country report presentation, lecture for action plan proposal, mid term action plan consultation, consultation for finalizing action plan action plan presentation</p> <p>【Finalization Phase】 Within 6 month after completion of the course, every participant is requested to share the knowledge and experience in Japan at respective organizations, then reports Action Plan progress to JICA</p> | IMPLEMENTING PARTNER | Waterworks Bureau, City of Sapporo |
| | JICA CENTER | JICA Sapporo |
| | COOPERATION PERIOD | 2008~2010 |
| | REMARKS | Active participation is indispensable for successful completion, because this course focuses Action Plan proposing process in order to facilitate finalization phase by every participant. (FYI; in 2008, 7/8 participants reported their progress) |


| Reinforcement of Meteorological Services 気象業務能力向上 | | GROUP  0980780 |
|--|--|---|
| Target Countries: Member Countries of the World Meteorological Organization (WMO) | | Water Resources/Disaster Management—Meteorology 8 participants / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
| <p>【Objectives】 This course aims at promoting activities to reinforce the meteorological services of each country applying meteorological data/products such as numerical weather prediction and satellite images.</p> <p>【Outputs】</p> <p>(1) To be able to explain the fundamental technique such as numerical weather prediction, satellite meteorology.</p> <p>(2) To be able to make up meteorological information which meets users' requirements based on fundamental techniques such as NWP and satellite meteorology.</p> <p>(3) To be able to brief general condition of climate and global environment and make up climate prediction applying climatological and global environmental information. (Weather Forecasting Course)</p> <p>(4) To draw up a master plan to improve the meteorological services of the participants' organizations, and to be used in participants' countries. (Climatology)</p> | <p>【Target Organizations】 National Meteorological Services</p> <p>【Target Group】 "Meteorologist" according to the WMO personnel categories</p> | |
| CONTENTS | PROGRAM PERIOD | Sep.14.2009 ~ Dec.11.2009 |
| <p>(1) Lectures on the basics of numerical weather prediction and its application. Lectures on the outline of satellite meteorology and application of satellite meteorological data.</p> <p>Lectures on the global telecommunications system.</p> <p>(2) Exercises on satellite meteorological data application. Exercises on operational forecasting.</p> <p>Lectures on the knowledge and skill to make up meteorological information which meets users' requirements.</p> <p>(3) Lectures on the climatological and global environmental information. Exercises on the application of climatological and global environmental information.</p> <p>(4) Creation of final report (including master plan). Presentation of final report and discussion.</p> <p>[After the training course] Implementation of activities to transfer the knowledge and expertise to colleagues in order to improve the meteorological services of participants' organizations (follow-up survey with questionnaire).</p> | IMPLEMENTING PARTNER | Japan Meteorological Business Support Center |
| | JICA CENTER | JICA Tokyo |
| | COOPERATION PERIOD | 2008~2010 |
| | REMARKS | |


| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
|--|--|--|
| <p>【Objective】 Applicable Knowledge or skills of Japan will be shared in organizations which implements operation and maintenance of urban water supply system</p> <p>【Expected Results】 (1)When the module completes, participants will be able to explain maintenance technologies of pipelines and service installations used in Osaka City (2)When the module completes, participants will be able to explain maintenance technologies of intake, treatment and distribution facilities. (3)When the training in Japan completes the plan to disseminate applicable technologies will be formulated. (4)Within five months after the training in Japan completes, engineers in participating organizations will participate in the dissemination program(s).</p> | <p>Organizations which implements operation and maintenance of urban water supply system</p> | |
| <p>CONTENTS</p> | <p>PROGRAM PERIOD</p> | <p>Jun.22.2009 ~ Aug.8.2009</p> |
| <p>This training aims to transfer and disseminate Japan's technology of operation and maintenance of urban water supply to field engineers in developing countries.</p> <p>(1)<Lecture>Maintenance of pipelines <Observation> Factory of water supply equipments <Practice> maintenance work, technical trainers' training <Discussion> Review, Applicable skills in participating organizations (2)<Lecture>Maintenance of intake, treatment and distribution facilities <Observation> Above mentioned facilities <Practice> maintenance work, technical trainers' training <Discussion> Review, Applicable skills in participating organizations (3)<Discussion> Applicable skills in participating organizations <Practice> Formulation and Presentation of Dissemination Plan (4)<Post-training activity> Dissemination program in participating organizations</p> | <p>IMPLEMENTING PARTNER</p> | <p>Osaka Municipal Waterworks Bureau</p> |
| | <p>JICA CENTER</p> | <p>JICA Osaka</p> |
| | <p>COOPERATION PERIOD</p> | <p>2009~2011</p> |
| | <p>REMARKS</p> | |


| The Group Training Course in Fire Prevention Techniques 火災予防技術 | | GROUP  0980933 |
|---|---|---|
| Water Resources/Disaster Management—Other Water Resources/Disaster Management Issues Governance—Public Safety | | 5 participants / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
| <p><Objective> Fire prevention techniques will be shared with each participant's organization.</p> <p><Output> To reach the objective, participants are expected to achieve the following results: 1. To identify the problems and challenges on the fire prevention activities and policies in the respective sections or organizations the participants belong to; 2. To make an action plan that suggests the formation of more practical fire prevention system, and improvement of the fire prevention measures, duties, and service in the participants' organizations and which in consequence will solve the issues, and disseminates more widely what they have learned from this program. 3. To implement the action plan in the respective countries, and submit final report to JICA.</p> | <p>1. Administrative officer or a candidate of a fire service implementation agency, who is or will be engaged in planning/ drafting fire prevention system and fire service systems; 2. Those who can disseminate the knowledge and techniques obtained in Japan to their organizations; 3. University graduates or equivalent; 4. Individuals with a proficient command of written and spoken English; 5. Individuals in good health.</p> | |
| CONTENTS | PROGRAM PERIOD | Aug.9.2009 ~ Oct.17.2009 |
| <p>1. Japanese legislation relating to fire prevention (lecture). 2. Japanese legislation relating to building standard (lecture). 3. Japanese administration for fire prevention (lecture and observation). 4. Facilities and equipment for fire prevention (lecture, observation and practice). 5. Making an action plan. 6. <Post-program activities (After participants' return)> Shareing and implementing the action plan in the participants' organizations. 7. <Post-program activities (After participants' return)> Reporting the progress of the plan as a final report to JICA.</p> | IMPLEMENTING PARTNER | TOKYO FIRE DEPARTMENT |
| | JICA CENTER | JICA Tokyo |
| | COOPERATION PERIOD | 2005~2009 |
| | REMARKS | |


| Dissemination and Establishment of Disaster Prevention Culture for Asian Countries アジア地域 防災文化の普及と定着 | | R/F  | 0984005 |
|--|---|---|---------|
| Water Resources/Disaster Management—Comprehensive Disaster Management | | | |
| Target Countries: Countries which had or highly likely to have a big natural disaster | 4 participants / | English | |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objectives】 To review the lessons learned from the disasters and to utilize the experience as wisdom for daily life, and to inherit the importance of disaster prevention as an own culture of the region.</p> <p>【Outputs】 (1) To be able to explain significance and characteristics of raising public awareness for DRR. (2) To be able to explain significance and characteristics of raising public awareness for DRR via disaster education in school. (3) To be able to explain significance and characteristics of raising public awareness for DRR via development of specialist in the next generation. (4) To be able to explain significance and characteristics of raising public awareness for DRR via various means for dissemination. (5) To formulate a proposal for raising public awareness for DRR, which is appropriate for each country, with concrete action and methods. (6) To formulate a final draft of proposal for raising public awareness for DRR, which is appropriate for each country, with concrete action and methods.</p> | <p>【Target Organizations】 Department or agency in central or local government which is in charge of raising public awareness for Disaster Risk Reduction (DRR) and/or disaster education. (e.g. Department or agency which is in charge of DRR, department or agency which is in charge of education/culture)</p> <p>【Target Group】 1) Current Duties: be an executive official/manager who can play a leading role in raising public awareness for DRR and/or disaster education. It will include executive official/manager of central/local government or manager of institution/facility which raises public awareness for DRR and/or disaster education. 2) Experience in the relevant field: have more than 3 years' experience in the field of raising public awareness for DRR, disaster education, disaster preparedness, etc.</p> | | |
| CONTENTS | PROGRAM PERIOD | Aug.23.2009 ~ Oct.3.2009 | |
| <p>(1) To be able to explain significance and characteristics of raising public awareness for DRR. - Activities for raising public awareness for DRR in community - Raising public awareness for DRR by museum and other forms of institution/facility (2) To be able to explain significance and characteristics of raising public awareness for DRR via disaster education in school. - Disaster education implemented by central and local government in Japan - Observation of disaster education in school (3) To be able to explain significance and characteristics of raising public awareness for DRR via development of specialist in the next generation. - Curriculum and contents of lectures in high school or university which has department in the field of disaster risk reduction - Discussion with students who major in disaster risk reduction in school. (4) To be able to explain significance and characteristics of raising public awareness for DRR via various means for dissemination. - Development of contents of disaster education (e.g. disaster game,) - Various ways to hand down the experience, memories and lessons of disaster to others/younger generation (e.g. picture-card show, puppet play, picture story book, theatre in education, music, etc.) - Activities and efforts conducted by private sector/private enterprises (5) To formulate a proposal for raising public awareness for DRR, which is appropriate for each country, with concrete action and methods. - Consideration of concrete action and methods to raising public awareness for DRR, which is appropriate for each country - Formulation and presentation of proposal. (6) To formulate a final draft of proposal for raising public awareness for DRR, which is appropriate for each country, with concrete action and methods. - Based on the participant's proposal, final draft of proposal is considered and formulated in the relevant organizations. - The report on the progress is made and submitted to JICA office within 3 months after return.</p> | IMPLEMENTING PARTNER | Asian Disaster Reduction Center | |
| | JICA CENTER | JICA Hyogo | |
| | COOPERATION PERIOD | 2008~2010 | |
| | REMARKS | | |


| Safer School against Disasters (dissemination of anti-seismic building for communities) in South West Asian Countries 南西アジア地域 災害に強い学校(コミュニティへの耐震建築の普及に向けて) | | R/F  0984151 |
|--|---|---|
| Target Countries: Seismic-prone countries, principally in South west Asia regions | | Water Resources/Disaster Management -Earthquake Disaster |
| | | 3 participants / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
| <p>【Objectives】 To build capacity of government officials and engineers to develop action plan and to implement school earthquake safety for their respective countries</p> <p>【Outputs】 (1) To understand the importance of school safety and role of schools in disaster risk reduction (2) To understand the technologies and provisions for design, construction and maintenance of school buildings to ensure their safety (3) To understand the vulnerability assessment of existing school buildings (4) To understand the concept and technologies for retrofitting (5) To understand country strategic plan for school safety (6) To prepare an action plan to promote school safety in respective countries</p> | <p>【Target Organizations】 Ministry of Education or regional educational committee</p> <p>【Target Group】 Current Duties: Engineering or administrative official engaged in examination or design of school building, and engaged in disaster mitigation in school Experience in the relevant field: have experience in architecture and/or system on construction - more than 7 years experience is preferable</p> | |
| CONTENTS | PROGRAM PERIOD | Oct.25.2009 ~ Nov.21.2009 |
| <p>(1) Importance of school safety and role of schools in disaster risk reduction - Disaster risk reduction and school - School and communities in DRR - Country report on school safety</p> <p>(2) Technologies and provisions for design, construction and maintenance of school buildings to ensure their safety - Construction of safe schools (seismic codes, philosophy, design, structural and non-structural issues)</p> <p>(3) Vulnerability assessment of existing school buildings - Vulnerability assessment methodologies - Prioritization for intervention</p> <p>(4) Concept and technologies for retrofitting - Retrofitting technology for different types of school structure (RCC, wooden, brick-masonry, adobe)</p> <p>(5) Country strategic plan for school safety - Case studies (experience of Japan) - National policy and country strategic planning</p> <p>(6) Action plan to promote school safety in respective countries - Action plan - Group work</p> | IMPLEMENTING PARTNER | Disaster Management Planning Hyogo Office, UNCRD |
| | JICA CENTER | JICA Hyogo |
| | COOPERATION PERIOD | 2008~2010 |
| | REMARKS | UNCRD has conducted projects in seismic-prone countries on safer school against disasters since 2001. The experience of the UNCRD projects will be shared and the experience of Hyogo prefecture and Kobe city will also be shared with participants. |

| Development of Coordinators for Disaster Nursing for Middle East and Asian countries 中東・アジア地域 災害に備えた看護コーディネーター育成 | | R/F  | 0984152 |
|--|--|--|---------|
| Water Resources/Disaster Management—Comprehensive Disaster Management | | 2 participants / | English |
| Target Countries: Countries often affected by natural disasters | | | |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objectives】 This program aims to formulate and practice an action plan of developing coordinators for disaster nursing.</p> <p>【Outputs】 1. To understand disaster nursing and to understand importance of coordinators for disaster nursing 2. To understand role and method of disaster nursing at the response/relief stage of disaster 3. To understand role and method of disaster nursing at the stage of mid- and long-term after disaster 4. To understand role and method of disaster nursing at the preparatory/preparedness stage of disaster 5. To understand how to formulate programs for developing human resources and how to spread disaster nursing.</p> | <p>【Target Organizations】 organization which can play a leading role in promotion of disaster nursing. (e.g. Medical/Educational institution, Central/local government, Nursing association, NGO)</p> <p>【Target Group】 Person who develops coordinators for disaster nursing (who will be in charge for disaster correspondence in medical institution or public health institution). Priority will be given to applicant with willingness/interest and/or with authority/duty on development and dissemination of coordinators for disaster nursing. 2) Experience in the relevant field: have more than 2-3 years' experience</p> | | |
| CONTENTS | PROGRAM PERIOD | Aug.30.2009 ~ Oct.3.2009 | |
| <p>【Preliminary Phase in a participant's home country】 Preparation for Job Report</p> <p>【Core Phase in Japan】 (1) - Essence and concept of disaster nursing - International network in the field of disaster nursing - Case study of disaster nursing in recent disaster-stricken area (2) - Emergency medicine in Hyogo prefecture - Coordination before medical treatment and triage - Providing better environment for refugee - Prevention of infectious disease - How to coordinate volunteers - Support to disaster-stricken medical institution (3) - Prevention of second disaster - Continued support to vulnerable people - Role of nurses in provisional housing and to help afflicted people put their lives back in order - Support for formulation of communities - Mental health care for afflicted people (4) - Educating people on disaster prevention - Collaboration with government and medical institution - Networking among Nurses - Disaster Nursing Education (5) - Human resources development programs - Formulation of action plan and its presentation - Evaluation method for effect of education</p> <p>【Finalization Phase in a participant's home country】 Application and implementation of the action plan back in the participant's country and submission of report on its progress</p> | IMPLEMENTING PARTNER | University of Hyogo, Research Institute of Nursing Care for People and Community | |
| | JICA CENTER | JICA Hyogo | |
| | COOPERATION PERIOD | 2008~2010 | |
| | REMARKS | University of Hyogo, which has continuously been practicing, educating and researching disaster nursing after the Great Hanshin-Awaji Earthquake, has started consistent education from undergraduate education to graduate education (both master program and doctorate program) on disaster nursing. In this program, you can learn the role and method of disaster nursing at all the stage of disaster management cycle. You can also learn from many experts who have lots of experience of practicing disaster nursing, including lessons learned from the Great Hanshin-Awaji Earthquake. | |


| Community-based Disaster Prevention –Introduction of Kobe's Efforts for Middle East and Asian Countries 中東・アジア地域 コミュニティ防災の実践～神戸の取り組み | | R/F  | 0984220 |
|--|---|---|---------|
| Target Countries: Countries often affected by natural disasters | | 7 participants / | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objectives】 The concept and method of promotion of community based disaster prevention are acquired, through understanding the importance of comprehensive management for natural disaster.</p> <p>【Outputs】 (1) To understand the significance of disaster prevention (2) To understand the needs and mechanism of community based disaster prevention and how to take community into it (3) To understand how to operate and conduct drills in community based disaster prevention (4) To understand how to foster leaders for disaster prevention in community (5) To Establish a simulated organization for community based disaster prevention and to formulate an action plan for promoting community-based disaster management</p> | <p>【Target Organizations】 Organizations which can play a leading role in promotion of community based disaster prevention and dissemination of self-help organization of residents for disaster prevention. (e.g. Disaster management planning organization/division, community development organization in central/local government)</p> <p>【Target Group】 1) Current Duties: be executive officials of the above-mentioned organizations - Priority will be given to applicant with willingness/interest and/or with authority/duty on development and dissemination of self-help organizations for disaster prevention in communities. 2) Experience in the relevant field: have more than 2 years' experience in the field mentioned above.</p> | | |
| CONTENTS | PROGRAM PERIOD | Aug.9.2009 ~ Sep.19.2009 | |
| <p>【Preliminary Phase in a participant's home country】 Preparation for Job Report</p> <p>【Core Phase in Japan】 1. Significance of disaster prevention and Japanese system of disaster prevention Disaster management in Japan and Hyogo Prefecture/ Disaster management in Kobe City/ Emergency response communication network system/ Disaster education promoted by the Board of Education, Kobe City/ JICA's approach to community based disaster prevention 2. Needs and mechanism of community based disaster prevention and how to take community into it Self-help organization for community based disaster prevention in Kobe "Disaster-Safe Welfare Community (BOKOMI)"/ Experience of establishing a Disaster Safe Welfare Community/ How to organize people for establishing a Disaster-Safe Welfare Community/ Example of town reconstruction/ Examples of community based disaster prevention other than those in Kobe City 3. How to operate and conduct drills in community based disaster prevention Equipment and materials used in self-help organizations for community based disaster prevention/ Community map for disaster prevention and its practical use/ Role of community radio in emergency response and reconstruction/ Drills for citizens and awareness programs 4. How to foster leaders for disaster prevention in community How to instruct civil organization/ How to foster future leaders for disaster prevention/ Disaster education/ Activities of community leaders for disaster prevention/ Discussion with the leaders of Disaster-Safe Welfare Community/ Overnight drill 5. Establishment of a simulated organization for community based disaster prevention and formulation of an action plan</p> <p>【Finalization Phase in a participant's home country】 Application and implementation of the action plan back in the participant's country and submission of report on its progress</p> | IMPLEMENTING PARTNER | Kobe City Fire Bureau | |
| | JICA CENTER | JICA Hyogo | |
| | COOPERATION PERIOD | 2007~2009 | |
| | REMARKS | It is expected to contribute to promotion of community based disaster prevention in each country, by introducing Kobe's effort of "disaster-safe welfare community." In this program, experience and practice will be emphasized; especially you will have some chances to participate disaster drills in which residents play a leading role. | |

| Community Empowerment through Safe Water Management for Arid Regions in French Speaking Africa 仏語圏アフリカ 乾燥地域 村落飲料水管理 | | R/F  | 0984248 |
|--|--|---|---------|
| Target Countries: French-Speaking Africa | | 13 participants / | French |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objectives】 To acquire knowledge, awareness and techniques to organize a community participation system in order to ensure sustainable management of safe drinking water supply in a small-scale community.</p> <p>【Achievement】To achieve the objectives, participants are expected:</p> <ol style="list-style-type: none"> To gain knowledge and skills necessary for safe drinking water supply in small-scale community, To gain knowledge and skills relating to living environment such as toilet, sewage management, garbage collection, etc. To learn examples (lessons learnt) of various projects and appropriate technologies implemented in arid areas in Africa and in Japan, To understand the importance of gender mainstreaming in community development, To learn a project management tool (Project Cycle Management), To formulate an Action Plan. | <p>【Requirements】</p> <ul style="list-style-type: none"> The program is designed for administrative planners engaged in safe drinking water management in small-scale communities Individuals with practical experience of more than 3 years in the field of water resource management Fluent in French Individuals with states that can achieve the role of leader in community for improvement Individuals in good health, both physically and mentally, to undergo the course of training | | |
| CONTENTS | PROGRAM PERIOD | Oct.18.2009 ~ Dec.18.2009 | |
| <p><Preparatory Phase> Formulation of Job Report. <Curriculum in Japan></p> <ul style="list-style-type: none"> Water resource development, management, and policies (in Japan and arid regions) Management for groundwater development and rural water supply program Transition of water supply and sanitation. Water supply and the quality control Water environmental engineering and groundwater management Theory and training in "Project Cycle Management" Theory and training in community management (including gender development, micro-credit) Practice of presentation skills <p><Finalization Phase> Implementation of the Action Plan and the report of the progress.</p> | IMPLEMENTING PARTNER | Fuji Women's University | |
| | JICA CENTER | JICA Sapporo | |
| | COOPERATION PERIOD | 2007~2009 | |
| | REMARKS | Expected number of participants per country: 2 (male 1, female 1) | |


| Training on Firefighting command techniques 消防活動指揮技術研修 | | R/F  0984309 |
|--|--|---|
| Water Resources/Disaster Management—Comprehensive Disaster Management | | |
| Target Countries: Vietnam | 6 participants / Vietnamese | |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
| <p>【Objective】 The fire prevention and fire fighting drills that are applicable to the actual conditions in Vietnam will be shared within the Fire and Disaster Management College of Vietnam.</p> <p>【Expected Results】 JFY2009(1)Participants, as a commander of rescue engine, will be able to implement and command the high-grade (advanced) rescue operations with the use of facilities loaded on the rescue truck. JFY2009(2)After returning to the home country, participants will make a training plan based on the techniques obtained during the core phase in Japan, then will implement the plan in the education and training curriculum at the Fire and Disaster Management College in Vietnam.</p> <p>*The output of JFY2010 and 2011 will be announced at in the General Information in each year.</p> | The University of Fire Fighting and Prevention, Ministry of Public Security of Vietnam | |
| CONTENTS | PROGRAM PERIOD | Apr.16.2009 ~ May.22.2009 |
| <p>To Acquire higher level techniques on firefighting and rescue activities which correspond urbamization.</p> <p>(1) Being able to rescue safely and promptly the person in need. (2) Formulating a training plan based on the knowledge and techniques gained during the training in Japan, and after returning home country, implementing the training plan in the curriculum of the University of Fire Fighting and Prevention, Ministry of Public Security of Vietnam</p> <p>*The contents of JFY2010 and 2011 will be announced at in the General Information in each year.</p> | IMPLEMENTING PARTNER | Tokyo Fire Department |
| | JICA CENTER | JICA Tokyo |
| | COOPERATION PERIOD | 2009~2011 |
| | REMARKS | <p>In this course, JICA will extend follow-up support to participating organizations that intend to develop the result of the program further. For this purpose, JICA will hold a TV-conference every 3 or 4 months between JICA Vietnam and JICA Tokyo with the attendance of all the personnel concerned.</p> |

| Training Course for Expert on Flood-related Disaster Mitigation 洪水関連災害防災専門家育成研修 | | GROUP  | 0980043 |
|--|---|--|---------|
| | | Water Resources/Disaster Management—Wind and Flood Disaster (Flood Control) | |
| | | 13 participants | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Program Objective】 The program objective is to develop the participant's capacity to practically manage the problems and issues concerning water-related disasters in local levels and to contribute for socio-economic and environmental improvements in regional and national levels in developing countries.</p> <p>【Expected Results】 (1) To be knowledgeable about the recent practices in integrated flood risk management in various localities in the world.</p> <p>(2) To be able to define the requirements for local/national effective risk reduction including public policies and design a local/national risk management frameworks, institutional coordination and management mechanisms including all stakeholders.</p> <p>(3) To be able to develop local/national indicators to detect and monitor changes in the basis of emergency responses and disaster risk reduction policies and to monitor the status and effectiveness of these policies.</p> <p>(4) To be able to contribute for the implementation of plans developed based on the identified integrated risk management policy by making them underpinned by a clear financial, institutional and legislative framework.</p> <p>(5) To be able to develop risk management strategies considering all the management cycle components, namely emergency response, recovery, mitigation and preparedness taking into account risk perception and communication issues and emerging threats such as global warming and climate change.</p> | <p>【Target Organizations】 Governmental Organizations concerning river management and/or water-related disasters</p> <p>【Target Group】 - Administrative officers and/or engineers and/or researchers in charge of river management and/or water-related disasters in above-mentioned organizations - Experience in the relevant field: more than 3 years' experience - To be university graduates in civil engineering, water resource management, or disaster mitigation, etc. or have an equivalent academic background. - To be familiar with mathematics such as differentiation and integration techniques.</p> | | |
| CONTENTS | PROGRAM PERIOD | Sep.28.2009 ~ Sep.18.2010 | |
| <p>【Preliminary Phase】 Participants will make an Inception Report on the current situation of the river management and/or water-related disasters management in their country.</p> <p>【Program in Japan】 Participants are expected to acquire the necessary skill and technique related water-related disaster management and mitigation through lectures, discussions, research, practical exercises and site visits, etc.</p> <p>(1) Meteorology related to the hydrological process (2) How to get access to meteorological data (3) Hydrological observation (4) Analysis/prediction methods using models to simulate the hydrological process (5) River engineering and river ecology (6) Flood risk assessment and risk reduction (7) Methods of the flood risk assessment and flood risk reduction, (8) Sediment control (9) Disaster mitigation policy (10) Disaster risk management (11) How to make projects of the International organizations</p> <p>【Finalization Phase】 The Action Plans made in the program in Japan should be shared in the participants' organization and should be elaborated as Final Report. Six months after going back to Japan, participants will report the progress of the Final Report to JICA.</p> | IMPLEMENTING PARTNER | Public Works Research Institute (PWRI) | |
| | JICA CENTER | JICA Tsukuba | |
| | COOPERATION PERIOD | 2007~2009 | |
| | REMARKS | Participants, who have successfully achieved required credits, will be awarded a Master's Degree, by GRIPS and PWRI. | |

| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
|---|--|--|
| <p>【Program Objective】 Plans improved on flood/sediment disaster measures, water resources management policies, dam management policies and riverine environment conservation measures in their native countries, are made in the water governing agencies such as the department of water resources or the department of irrigation.</p> <p>【Expected Results】 (1) To understand the current situation on water use and water resource management in their countries. (2) To get the knowledge related to trends of the world in the water sector and the history of river projects and the current river system in Japan. (3) To get knowledge on planning and design techniques about flood control (including erosion control) and water use, and dams. (4) To prepare Interim report for improving or getting over the problems in their own countries. (5) To revise the Interim report (action plan) to be authorized by parent organization, and prepare and submit Final report.</p> | <p>【Target Organizations】 Water management organization such as Ministry of Water Resources, Ministry of Irrigation</p> <p>【Target Group】 - Administrative officer and/or engineer in charge of flood control works or water resources development projects in water management organizations. - Experience in the relevant field: more than 3 years' experience in the field of flood control or in water resources development projects.</p> | |
| CONTENTS | PROGRAM PERIOD | Sep.6.2009 ~ Dec.12.2009 |
| <p>【Preliminary Phase】 Participants make an Inception Report on present situation and problems related flood control , water resources management in their countries.</p> <p>【Program in Japan】 Participants are expected to understand the overall view of water use and water resource management through lectures, discussions, practical exercises and site visits.</p> <p>(1) History, system and legislation for river works ⇒ History, system and legislation for river works in Japan ⇒ World trends in the water sector</p> <p>(2) History of water works and structural and non- structural measures in Japan ⇒ Planning and design for flood control in Japan ⇒ Planning and design for erosion control in Japan ⇒ Water utilization plan in Japan ⇒ Hydrological observation in Japan ⇒ Improvement of river environment in Japan</p> <p>(3) Dam project in Japan ⇒ Dam design and geological survey in Japan ⇒ Dam construction works and management in Japan</p> <p>(4) Formulation and Discussion on Interim Report for for improving or getting over the problems in their own countries.</p> <p>【Finalization Phase】 The Intern Report made in the program in Japan should be shared in the participants' organization and should be elaborated as Final Report. Participants will report the progress of the Final Report to JICA.</p> | <p>IMPLEMENTING PARTNER</p> <p>JICA CENTER</p> <p>COOPERATION PERIOD</p> | <p>Infrastructure Development Institute (IDI) and Public Works Research Institute (PWRI), etc</p> <p>JICA Tsukuba</p> <p>2008~2010</p> <p>REMARKS</p> |

| 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 | | GROUP  0980074 |
|---|---|---|
| Water Resources/Disaster Management—Comprehensive Water Resources Management | | |
| Target Countries: Countries with water shortage by rapid industrial development | | 8 participants / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
| <p>【Objective】 A method of subject solution which relates to effective use of industrial water and reuse of waste water is considered and made a policy & schedule to promote the solution.</p> <p>【Expected Results】 To achieve this program objective, participants are expected to;</p> <ol style="list-style-type: none"> 1. understand and explain the importance of policy on the effective use of industrial water and reuse of waste water. Also, trainees explain the difference of industrial water policy between Japan and the respective countries. 2. understand the basic technologies on effective use of water and reuse of waste water at plant. 3. understand the importance of the required policy planning and implementation to promote the effective use of water and reuse of waste water. 4. develop and present a feasible action plan to implement the effective use of industrial water and reuse of waste water in the respective countries. | <p>【Target Organizations】 Policy planning administration related with industrial water supply</p> <p>【Target Group】 (1st & 2nd year) Administrative officers who are in charge of practical works (3rd year) Senior/middle management officers who are responsible for the decision making in the target organization. -Have at least five years of experience in the aforementioned organization. -Individuals who have already mastered basic water treatment technologies in the university.</p> | |
| CONTENTS | PROGRAM PERIOD | under planning |
| <ol style="list-style-type: none"> (1) Presentation of the current situation on water, industrial water and waste water in the respective countries (2) Lecture on the necessity of effective use of industrial water and re-use of waste water (3) Comparison and analysis the difference between trainee's countries and Japan (4) Field trip to plants which use/reuse the water effectively (5) Field trip to plants which use/reuse the waste water effectively (6) Lecture on the basic technologies of effective use of water and reuse of waste water (7) Lecture on water treatment technologies which are easy to apply at developing countries (8) Lecture on the policy of industrial water and the role of METI (Ministry of Economy, Trade and Industry) (9) Lecture on the law of industrial water (10) Lecture on the regulation and incentive for water saving (11) Lecture on the financial support system in Japanese developing assistance policy (12) Development and presentation of Action Plan (13) Discussion for Action Plan | IMPLEMENTING PARTNER | Water Re-use Promotion Center |
| | JICA CENTER | JICA Tokyo |
| | COOPERATION PERIOD | 2009~2011 |
| | REMARKS | |

| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
|---|---|----------------------------------|
| <p>【Objectives】 Participants' capacity to formulate an action plan to solve the problems/challenges which participants' organization are facing, and to improve the system and management of emergency /disaster medicine is improved.</p> <p>【Outputs】 1) Participants will gain a general view of the Japanese emergency medical system and understand the cooperative system among related organizations, 2) Participants will gain a general view of Japanese disaster medical system through past experiences in Japan, 3) Draft action plan will be formulated to solve the problems/challenges which participants' organization are facing.</p> | <p>【Target Organizations】 Emergency medical organizations or medical administrative agencies</p> <p>【Target Group】 1) senior medical doctors or administrators engaged in measures for emergency/disaster medicine and occupying a position of leadership in an emergency medical institution or a medical administrative organization, 2) be familiar with the recent situation of emergency medical research activities or disaster preparedness in their own country ※Participating Countries in "Medical Management in Disaster for Andes Area" (Held in JICA Hyogo) will not be allocated in this program.</p> | |
| <p align="center">CONTENTS</p> | <p align="center">PROGRAM PERIOD</p> | <p>Sep.13.2009 ~ Oct.21.2009</p> |
| <p>〈Preparatory phase in participants' home countries〉 Formulation of Job Report 〈Phase in Japan〉 (1) Primary/secondary/tertiary emergency medicine, Poisonous & hazardous substance information management, Emergency medical training, Emergency-response personnel training (2) National disaster-medicine systems, Local disaster-medicine systems, The experience of the great Hanshin earthquake, Japanese red cross society roles & mobilization system, Hospital disaster-readiness practice (3) Action plan making 〈Finalization Phase in participants' home countries〉 Discussion and Finalization of Action Plan, Submission of final report to JICA regional Office</p> | <p align="center">IMPLEMENTING PARTNER</p> | <p>Saiseikai Senri Hospital</p> |
| | <p align="center">JICA CENTER</p> | <p>JICA Osaka</p> |
| | <p align="center">COOPERATION PERIOD</p> | <p>2008~2010</p> |
| | <p align="center">REMARKS</p> | |


| Integrated Water Resources Management 統合の水資源管理 | | GROUP  | 0980839 |
|--|--|---|---------|
| Water Resources/Disaster Management—Other Water Resources/Disaster Management Issues | | | |
| Target Countries: Asian monsoon region | | 15 participants / | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objective】 To formulate a fundamental direction for improving the implementation system of integrated water resource management in the selected model basin(s).</p> <p>【Expected Results】 (1)To preliminarily identify and define work-related problems in water resource management departments / organizations (2)To identify and define issues / problems concerning implementation of integrated water resource management. (3)To make improvement plans for priority implementation issues in water resource management (4)To examine the feasibility of the draft improvement plans in the participants' water resource management departments / organizations</p> | Department working on water resources management in water relevant administrative agencies and river basin organizations | | |
| CONTENTS | PROGRAM PERIOD | Aug.23.2009 ~ Sep.5.2009 | |
| <p>This program is designed for the staffs working on water resources management in administrative agencies etc. to get capacity which enables to implement the IWRM.</p> <p>(1)To identify and define issues / problems regarding the basin(s) in which participants are involved (Information collection) (2)The implementation system of water resource management in the respective countries, and issues / problems regarding the basin(s) in which participants are involved (Oral presentation, Discussion), The cases of integrated water resource management in Japan (Lecture, Site Visit), The implementation system of water resource management and the related legislation in Japan (Lecture, Site Visit) (3)PCM to make improvement plans (Exercise), Oral presentation of draft improvement plans (Presentation, Discussion) (4)Discussion and examination of draft improvement plans within the participants' water resource management departments / organizations (Discussion with related persons)</p> | IMPLEMENTING PARTNER | Incorporated Administrative Agency Japan Water Agency | |
| | JICA CENTER | JICA Tokyo | |
| | COOPERATION PERIOD | 2009~2011 | |
| | REMARKS | | |

Target Countries: seismic-prone countries

9 participants ★/

English

| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
|---|---|--|
| <p>【Objective】 DRR (Disaster Risk Reduction) strategy for urban earthquake, which is based on a pro-active approach of DRR utilizing various tools and knowledge in risk assessment, risk management, and risk communication, is to be studied and built at each organization to implement urban earthquake DRR.</p> <p>【Expected Results】 (1)Risk Assessment and its Tools and Knowledge (2)Risk Management and its Tools and Knowledge (3)Risk Communication and its Tools and Knowledge (4)International Activities for Urban DRR and Education for Leaders (5)DRR strategy for urban earthquake is to be studied and built at each organizations to implement urban earthquake DRR</p> | <p>【Target Organizations】 Organizations which conduct urban earthquake disaster risk reduction (DRR) (government, research institution, medical institution etc.)</p> <p>【Target Group】 1) Current Duties: be a public officer, technical specialist, researcher, engineer or medical staff presently engaged in practical service of DRR of urban city. 2) Experience in the relevant field: have more than 2 years' experience in the field of DRR.</p> | |
| <p style="text-align: center;">CONTENTS</p> | <p style="text-align: center;">PROGRAM PERIOD</p> | <p>May.10.2009 ~ Jul.4.2009</p> |
| <p>To promote a holistic & comprehensive strategy urban earthquake DRR in seismic prone countries by training leaders of DRR to get the essential knowledge & tools.</p> <p>(1)Through the lectures of "Earthquake Mechanism", "Seismic Ground Motion & Hazard Map", "Building Codes", "Lifeline Damage Assessment" and visits to relevant institutions, the participants will learn the risk assessment tools & knowledge that are needed prior to the occurrence of earthquake. (2)Risk management tools & knowledge required after the quake will be taught through the lectures of "Recovery of Kobe City & Community", "Disasters Medical Response & Public Health", "Environmental Impacts of Disasters", "Economic Impacts of Earthquake" and visits to relevant institutions. (3)Through the lectures of "IT for Emergency Management", "Disaster Information Sharing", "Education for DRR" and also visits to relevant institutions, the participants will learn the risk communication tools and knowledge that are needed prior to and after the occurrence of urban earthquake. (4)Through the lectures of "Int. Collaborations for DRR", "Inter-national Organization on DRR and Educational System", the participants will learn how to obtain an internationally accredited certification as an urban DRR specialists to support their own DRR activities at home country. (5)DRR strategy for urban earthquake, which is based on a pro-active approach of DRR utilizing various tools and knowledge in risk assessment, risk management, and risk communication, is to be studied and built at each organizations to implement urban earthquake DRR.</p> | <p>IMPLEMENTING PARTNER</p> | <p>Research Center for Urban Safety and Security, Kobe University</p> |
| | <p>JICA CENTER</p> | <p>JICA Hyogo</p> |
| | <p>COOPERATION PERIOD</p> | <p>2009~2011</p> |
| | <p>REMARKS</p> | <p>The participants will also attain work credit to be eventually counted toward completing an internationally-accredited professional certification program as "urban DRR specialists" currently being formulated by several international organizations including WBI, UNDP, UNISDR, and others.</p> |


| The Seminar on administration by Competent Authorities for Better Management of Water 水道管理行政 | | GROUP  0980915 |
|--|---|---|
| Water Resources/Disaster Management—Comprehensive Water Resources Management | | 8 participants ★ / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
| <p>【Objective】 This course aims at achieving consensus for challenges and sharing the idea of improvement plan for better management of water supply after the participants' returning.</p> <p>【Outputs】<Under Planning> Participants are expected to be able to: (1)Understand the water quality management, non-revenue water, guidelines of water supply to acquire the ability of applying the knowledge in their countries, (2)Specify the challenges which need to be tackled and formulate the improvement plan and (3)Share the idea of implement plan which participants formulate among related persons in their organizations after returning back.</p> | <p><Target Organizations> Departments which are in charge of water supply administration at national/ regional authorities</p> <p><Target Group> 1) Individuals with 5 years experience in the field of water supply 2) Individuals expected to play major roles in the development of regulations and policies on water supply</p> | |
| CONTENTS | PROGRAM PERIOD | Jun.7.2009 ~ Jun.20.2009 |
| <p><Preliminary Phase in home country> Participants required to Make a Country Report and its presentation file. These contents are below: job outlines, challenge/issue in their organization and the status of water supply management. <Core Phase in Japan> Lectures, field visits, discussion and presentation will be held such as: 1)Country Report Presentation 2)Water Quality Management 3)Non-Revenue Water 4)Water Safety Plan 5)Improvement Plan Formulation and Presentation <Follow-up Phase> Participants are expected to share the idea of improvement plan among related persons and report on the progress.</p> | IMPLEMENTING PARTNER | Japan International Corporation of Welfare Services |
| | JICA CENTER | JICA Tokyo |
| | COOPERATION PERIOD | 2007~2009 |
| | REMARKS | This course will be held twice in a year. The another course will be held from Sep.6.2009 to Sep.19.2009. |


| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
|---|---|---------------------------------|
| <p>【Objective】 Participants formulate comprehensive plan of disaster management in each participants' organization.</p> <p>【Output】 (1)To understand disaster management of national and local governments and examine how to adopt acquired knowledge in each country. (2)To understand the role of NGOs and private sectors such as mass-media and other private firms in disaster management and examine how to adopt acquired knowledge in each country. (3)To understand Japanese approaches to different disasters and examine how to adopt acquired knowledge in each country. (4)To formulate action plans for the challenging the problems in each country.</p> | <p>[Target Organizations] Departments in charge of disaster management at central and local government.</p> <p>[Target Group] Officials currently responsible for the natural disaster management: Especially those who are involved in disaster prevention, mitigation preparedness, response, rehabilitation and reconstruction either in central or local level government</p> | |
| CONTENTS | PROGRAM PERIOD | Jan.11.2010 ~ Feb.27.2010 |
| <p>Preparatory phase: Participants are requested to submit country reports describing the current situation and problems of their own organization, signed by the head of the organization.</p> <p>Program in Japan: (1) Lecture: disaster risk management of central, prefectural, and municipal government, disaster prevention education, Hyogo Framework of Action (HFA), (2) Field visit: Disaster Prevention Organization of central, prefectural, and municipal level (3) Practice on improving the people's consciousness on disaster prevention (4) Discussion for the action plan, Workshop of Project Cycle Management (PCM)</p> <p>Post-program activities: The action plan is to be reconsidered by the participant's organization and submitted with the signature of the head of the organization after the program.</p> | IMPLEMENTING PARTNER | Asian Disaster Reduction Center |
| | JICA CENTER | JICA Hyogo |
| | COOPERATION PERIOD | 2005~2009 |
| | REMARKS | |

Target Countries: Country with frequent flood disasters

9 participants / English

| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
|--|--|---|
| <p>【Program Objective】 The direction and schedule to make local disaster management plan combined with flood hazard map and flood forecasting/warning system will be drawn.</p> <p>【Expected Results】 <First year> (1) To identify problems and issues on flood disaster countermeasures. (2) To set the direction for a local disaster management plan and to make a mid-term operation schedule.</p> <p><Second year> (3) To identifying problems and issues for obtaining data to conduct hydrological and flood analysis.</p> <p><Third year> (4) To understand of the relationship among flood hazard mapping (FHM), forecasting / warning systems and an evacuation plan in a local disaster management plan. (5) To develop an outline of the direction for a local disaster management plan and a mid-term operation schedule for a target area.</p> | <p>【Target Organizations】 Governmental organizations which conducts operation of flood disaster management plan and has authority over related laws or has close relationship in a country with frequent flood disasters.</p> <p>【Target Group】 - Administrative officers in charge of above-mentioned target organization. ⇒ Division Director Level (First year) ⇒ Senior engineer in charge of FHM (Second year) ⇒ Assistant director level in charge of promoting flood hazard mapping (FHM), forecasting/warning systems - Experience in the relevant field; ⇒ Risk Management of flood disasters (First year) ⇒ Dam and flood disasters Management (Second year) ⇒ Risk Management of flood disasters (Third year)</p> <p>• Preferable be an officer who have knowlege about law of flood disasters management and disaster prevention plan.</p> | |
| <p style="text-align: center;">CONTENTS</p> | <p style="text-align: center;">PROGRAM PERIOD</p> | <p>Oct.25.2009 ~ Nov.25.2009</p> |
| <p>The direction and schedule to make local emergency operation plan combined with flood hazard map and flood forecasting/warning system will be drawn.</p> <p>(1) PCM, related organizations, hearing, understanding danger/damage of flood disaster, establishing law system, frequency analysis, check danger points, general terms (including outline of local disaster mitigation plan)</p> <p>(2) PCM exercise, drafting action plan</p> <p>(3) Runoff analysis, hydrological frequency analysis, GIS, inundation analysis, Google earth, Town Watching, general terms (including outline of local disaster mitigation plan)</p> <p>(4) Town Watching, evacuation plan combined with flood forecasting/warning system and FHM, communication network</p> <p>(5) PCM, related organizations, hearing to residents on awareness, understanding danger/damage of flood disaster, frequency analysis, check danger points, general terms, drawing local disaster mitigation plan</p> | <p>IMPLEMENTING PARTNER</p> <p>Public Works Research Institute (PWRI)</p> <p>JICA CENTER</p> <p>JICA Tsukuba</p> | <p>COOPERATION PERIOD</p> <p>2009~2011</p> |
| | <p style="text-align: center;">REMARKS</p> | |

| Water Supply Management for Middle Eastern Countries ~Maintenance of distribution pipeline and Leakage prevention~ 中東地域 上水道維持管理~配水管網の維持・漏水防止~ | | R/F  0984073 |
|--|--|--|
| Target Countries: Middle Eastern Countries. The country whose mother tongue is Arabic. | | Water Resources/Disaster Management—Comprehensive Water Resources Management 6 participants / English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
| <p>【Objectives】 The improvement plan prepared by each participant can be presented and shared with the appropriate people in his/her organization.</p> <p>【Outputs】 (1) Job/Country Report should summarize the challenges of techniques of water supply management in each country (2) Each participant can outline the current water supply management in Japan (3) Each participant can explain the practical knowledge and techniques necessary for the establishment of an appropriate distribution network (4) Each participant can explain practical knowledge and techniques necessary for a leakage prevention system (5) Utilizing knowledge and techniques gained through the training, each participant can compile an improvement plan to solve problems in his/her own country's water supply projects (6) The improvement plan prepared by each participant can be presented and shared with the appropriate people in his/her organization</p> | <p>【Target Organizations】 The organizations which implement the practical operations such as planning, designing, operation and maintenance of distribution pipeline and investigation and repair of underground leakage.</p> <p>【Target Group】 1) Current job: engineers who perform the practical operations of design and maintenance/control in the field of water supply projects. 2) Experience in water supply projects: have more than five (5) years of work experience in water supply projects.</p> | |
| CONTENTS | PROGRAM PERIOD | Jul.7.2009 ~ Aug.23.2009 |
| <p><Preparatory phase (Before coming to Japan)> (1) Preparation of Job/Country Report Presentation ⇒Job/Country Report presentation will be held at the beginning of the core phase in Japan</p> <p><Program in Japan> (2) Overview of the water supply management in Japan (a) Outline (Lecture) (b) Maintenance of purification plant (Lecture, Observation) (c) Water quality control (Lecture) (d) Maintenance of water transmission facilities (Lecture, Observation) (3) Maintenance of distribution network (a) Outline and maintenance of distribution facilities (Lecture, Exercise) (b) Outline of water-service installation (Lecture, Exercise) (4) Operation of leak prevention (Lecture, Observation, Exercise)</p> <p>(2)(3)(4) Elective Training (a) Choose one out of two topics below and have training on the chosen topic - Functional evaluation and improvement planning for distribution pipes - Planned detection and repair of underground leakage (b) Make presentation regarding the training on the chosen topic</p> <p>(5) Formulation of improvement plan (Action Plan) (a) Prepare plans to solve problems regarding water supply projects in participants' countries (b) Make presentation of plans to solve problems</p> <p><Post-program activities (After participants' return)> (6) Share the improvement plan (Action Plan) within the participant's organization and submit the progress report to JICA</p> | IMPLEMENTING PARTNER | Hiroshima City Waterworks Bureau |
| | JICA CENTER | JICA Chugoku |
| | COOPERATION PERIOD | 2008~2010 |
| | REMARKS | This training course does not include Water Recourse Development, Advanced Drinking Water Treatment, and utilization of well water or ground water as water resources. |

| Tsunami Disaster Mitigation 津波防災 | | R/F  | 0984165 |
|---|--|--|---------|
| Water Resources/Disaster Management—Earthquake Disaster | | | |
| Target Countries: Tsunami disaster prone countries in Asia and Pacific Ocean | | 7 participants / | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Program Objective】 A draft for Tsunami Early Warning system and a draft for Tsunami Hazard Assessment are proposed in an organization such as meteorological agency.</p> <p>【Expected Results】</p> <p>(1) To identify Tsunami disaster-related problems as preparatory work.</p> <p>(2) To acquire fundamental knowledge on earthquake and tsunami and are able to explain basic concept and theory about generation, propagation and run-up procedure of tsunami caused by earthquake.</p> <p>(3) To be able to explain basic concept and principle for Tsunami Early Warning system, Hazard assessment, disaster mitigation policy, and countermeasures, which are indispensable for Tsunami disaster mitigation.</p> <p>(4) To be able to apply acquired knowledge for solving the problems of their countries and compile master report based on capacity development for application of Tsunami Early Warning system and Tsunami Hazard Map.</p> <p>(5) To examine the feasibility of their draft for improvement plan at each division in charge of Tsunami disaster reduction.</p> | <p>【Target Organizations】 Administrative agencies on tsunami disaster mitigation, national research institutes and universities</p> <p>【Target Group】 - Administrative officers and/or engineers and/or researchers in charge of tsunami disaster mitigation in above-mentioned target organizations. - Experience in the relevant field: more than 3 years' experience. - To be university graduates in Seismology, Tsunami or Their Disaster Mitigation, or be university graduates in Science and Technology other than the above mentioned subjects.</p> | | |
| CONTENTS | PROGRAM PERIOD | Sep.28.2009 ~ Sep.18.2010 | |
| <p>【Preliminary Phrase】 Participants will make an Inception Report on the current situation of tsunami disaster mitigation, such as tsunami early warning system and tsunami hazard assessment, in their country.</p> <p>【Program in Japan】 Participants are expected to understand the knowledge and technique for tsunami disaster mitigation in order to promote improving tsunami early warning system and tsunami hazard assessment through lectures, discussions, practical exercises and site visits.</p> <p>(1) Lectures, practical studies and field trips regarding Tsunami generation by earthquake, Tsunami propagation and its run-up procedure.</p> <p>(2) Lectures, practical studies and field trips from which the participants can learn technologies on Tsunami Early Warning system, Tsunami Hazard assessment and countermeasures and policy making on tsunami disaster.</p> <p>(3) Compilation of Master Report</p> <p>(4) Formulation of draft for improvement plan and its review</p> <p>【Finalization Phase】 The improvement plan (Interim Report) made during the program in Japan should be shared in the participants' organization and should be elaborated as Final Report. Six months after leaving Japan, participants will report the progress of the Final Report to JICA.</p> | IMPLEMENTING PARTNER | Building Research Institute | |
| | JICA CENTER | JICA Tsukuba | |
| | COOPERATION PERIOD | 2009~2011 | |
| | REMARKS | Participants, who have successfully achieved required credits, will be awarded a Master's Degree, 'Master of Disaster Mitigation', by GRIPS and BRI. | |

Target Countries: Southeast countries


7 participants / English

| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
|--|---|--|
| <p>【Objective】 Every participant shares and implements “Action Plan” in respective organization, and then officially reports its progress to JICA</p> <p>【Expected Outputs】 1) To grasp the outline of urban water service in Japan, and identify issues of their own organizations 2) To identify the issues of financial management of urban water systems of participants’ organization 3) To identify issues of water treatment systems and water quality control to improve quality of the water. 4) To identify issues in maintenance of urban water service facilities of participating organizations. 5) To propose “Action Plan” describing appropriate methods and techniques to improve urban water systems management</p> | <p>【Organization】 Governmental, semi-governmental, or corporate organizations in charge of management of urban water systems</p> <p>【Personal Qualifications】 〈Current Duties〉 Managerial Officers, Staff members, Government officers, Engineers (※Being engineer is NOT essential requirement; however, daily involvement to any kinds of urban water systems-related work is indispensable.) 〈Experience〉 More than 3 years working experience</p> | |
| CONTENTS | PROGRAM PERIOD | Jun.30.2009 ~ Aug.1.2009 |
| <p>【Preparatory Phase】 Each participant prepares Job Report to identify each issues</p> <p>【Core Phase】 〈Subjects per Module〉 (1) Water supply administration in Japan, Sewerage administration in Japan, Tour the water purification plant in City of Sapporo, Tour the wastewater treatment plant in City of Sapporo, Tour the wastewater treatment plants in Tokyo (2) Financial management system for water service (Basic theory and Case study), Collection of water charge from users, Asset management of water and wastewater treatment plants, Project cycle management(Lecture and workshop) (3) Global trend of watershed management, New concepts of water management and its application to urban water management, Process management at water purification plant and water quality control, Advanced wastewater treatment and reuse, Assessment of the human health risk of water, New technology for water and wastewater treatment, New trends and techniques (Wastewater treatment using Membrane, and Drinking water treatment using Membrane), World water situation (4) Maintenance of physical structures, Water conveyance and distribution system in Sapporo, Maintenance of pipe networks, Water leak prevention (5) Orientation, Discussion with the course leader, Preparing action plans and its Presentation and discussions, PCM workshop</p> <p>【Finalization Phase】 Within 6 months, every participant is requested to present action plan and share its experience in Japan in home organization, then reports Action Plan progress to JICA</p> | IMPLEMENTING PARTNER | Center for Environmental Nano and Bio Engineering in Hokkaido University |
| | JICA CENTER | JICA Sapporo |
| | COOPERATION PERIOD | 2009~2011 |
| | REMARKS | |

Target Countries: Central and South America

8 participants / Spanish

| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
|---|--|---|
| <p>【Objective】 Respective community or society's capacity against volcanic disaster prevention / management shall be improved, though the implementation of the formulated plan</p> <p>【Expected Outputs】 (1) To identify the issues of the volcanic disaster management in participants' country / area through understanding how to grasp volcanic disaster risk in Japan (2) To identify the issues of the volcanic disaster management in participants' country / area by understanding the disaster prevention plans and schemes in volcanic disaster vulnerable area in Japan. (3) To propose ideas for productive usage of volcanoes as resources for regional promotion by learning cases in Hokkaido (4) To propose appropriate and feasible "Action Plan" for volcanic disaster management in participants country/regions,</p> | <p>【Organization】 Central / Local government, University, Research Institutes and NGOs, in charge of on the ground work for volcanic disaster management</p> <p>【Personal Qualification】 <Current Duties> Senior staff in charge of volcanic disaster prevention and management on the ground. <Experience> More than five (5) years in the field of volcanic disaster prevention and management. <Educational Background> Volcanology, Natural disaster management etc. <Age> Be between 25 to 45</p> | |
| CONTENTS | PROGRAM PERIOD | Aug.25.2009 ~ Oct.3.2009 |
| <p>【Preparatory Phase】 Each participant prepares country report to identify its issues</p> <p>【Core Phase】 <Subjects per module> (1) Volcanology, Eruption mechanism, Volcanic disaster(general remarks), Volcanic disaster(pyroclastic flow, pyroclastic surge, lahar, hazard map), Eruption forecast, Risk management (2) Countermeasure against volcanic disaster(through the cases of Usu, Tokachi, Unzen, and Miyakejima volcanoes), Scheme of volcanic disaster organization (disaster management office etc), Eruption and mass media, Disaster psychology •Educational activities around volcanic disaster vulnerable area, Volcanic information device (3) National park and museum around volcanic area, UNESCO Geopark (4) Inception Report Presentation, Group discussion, Proposing Action Plan</p> <p>【Finalization Phase】 (1) Within 6 months after completion of the course, every participant is requested to share its knowledge and experience in Japan at respective organization, then reports Action Plan progress to JICA</p> | IMPLEMENTING PARTNER | Crisis and Environment Management Policy Institute (CeMI) |
| | JICA CENTER | JICA Sapporo |
| | COOPERATION PERIOD | 2009~2011 |
| | REMARKS | <ul style="list-style-type: none"> •Through out the course, an experienced course leader, who has been playing key role in coordinating stakeholders in Mt.Usu regions will guide the participants •In the selection committee, special attention will be paid to secure diversity of home organizations in order to deepen the understanding for the importance of multi-stakeholders in disaster prevention |

| Policymaking of Water Environmental Management in Middle East, and African countries 中東・アフリカ地域 水環境管理政策 | | R/F  | 0984297 |
|---|--|---|---------|
| Water Resources/Disaster Management—Other Water Resources/Disaster Management Issues | | | |
| Target Countries: Middle East and African Countries (arid/semi-arid region) | | 6 participants / | English |
| OBJECTIVE | TARGET ORGANIZATION / GROUP | | |
| <p>【Objective】 A provisional policy plan to secure safe and stable water resources, and improve water environment shall be proposed by the participating organizations in the model area in the target countries.</p> <p>【Expected Results】 (1) To deepen understanding on water sources, safe and stable water supply system and environmental management policy (2) To deepen understanding on methodologies of non-conventional alternatives (3) To understand the methods on environmental assessment, monitoring, analysis, and clarify the issues needed for sustainable planning (4) To propose an action plan to secure safe and stable water resources, and improvement of water environment based on its problem analysis. (5) To submit a progress report and final report which are further considered at the respective organization based on the action plan</p> | <p>【Target Organizations】 This program is designed for ministries and agencies in charge of water resources & supply and environment management.</p> <p>【Target Group】 Current Duties: be the government official in planning and policy making in the field of water resources development or environmental management in central government bodies and associating agencies. (Target Level (year): Director Level (1st year) (Note: The second applicant from the same country can be Section Manager Level.), Young Officer Level (2nd year), Section Manager Level (3rd year)) Experience in the relevant field: have more than 5 years' experience in the field explained above Age(1st year): No limitation as long as the applicant is in the director level (Target Age (year): below 35 years old (2nd year), around 45 years old (3rd year))</p> | | |
| CONTENTS | PROGRAM PERIOD | Aug.3.2009 ~ Aug.29.2009 | |
| <p>Provisional policy plan shall be proposed in order to secure safe and stable water resources, and improve water environment in Middle East and African Countries.</p> <p>(1)【Lecture and Practice】 <ul style="list-style-type: none"> Hydrology and water resources including vulnerability assessment of climatic changes Development and management of surface water and groundwater Distributed type of safe water supply system and ecological sanitation Eco-engineering applications to conserve and/or restore aquatic eco-system and water quality environment Environment Impact Assessment (EIA) Water policy with non-conventional alternative strategies including recycling treated waste water, desalination and rainwater harvesting </p> <p>(2)【Lecture, Practice and Field Observation】 <ul style="list-style-type: none"> Rainwater harvesting and infiltration to recharge groundwater Advanced wastewater treatment and recycling reclaimed water applying simple and low cost technologies (by SHIMANTO Concept) Conservation and/or restoration of aquatic eco-system and water quality environment applying bio-manipulation Appropriate technology applications of ecological slow sand filtration and bio-toilet </p> <p>(3)【Lecture, Practice and Workshop】 <ul style="list-style-type: none"> Methods on planning and evaluation based on Project Cycle Management(PCM) Implementation of workshop for planning and evaluation of projects </p> <p>(4)【Practice and Discussion】 Preparation of action plans for respective countries</p> <p>(5)【at participant's home countries】 Submission of progress report of Action Plan (Annex 3) after 3 months of the training program in Japan (The participant's organization will submit the progress report in this year (2009) and the next year (2010) and the participant in the third year (2011) will submit the final report of the action plan.)</p> | IMPLEMENTING PARTNER | Japan International Cooperation Center, Kochi University of Technology | |
| | JICA CENTER | JICA Shikoku | |
| | COOPERATION PERIOD | 2009~2011 | |
| | REMARKS | | |

| OBJECTIVE | TARGET ORGANIZATION / GROUP | |
|--|--|---|
| <p>【Objectives】 To strengthen and expand the network of disaster response to improve the lifesaving rate at the disaster area by smooth and effective international disaster cooperation. The network is also utilized to share the information that would contribute to the disaster prevention and rehabilitation from disasters.</p> <p>【Outputs】 (1) To understand the current status of emergency/disaster medicine in participating countries and Japan through presentation and discussion with participants and Japanese experts in the Mini Symposium. (2) To delineate the direction for 1) networking among stakeholders and 2) effective use of network among stakeholders at the time of disaster</p> | <p>【Target Organizations】 Organizations which have responsibility as a contact point for international emergency assistance in disaster-prone countries</p> <p>【Target Group】 1) Being in responsible positions in national, local government, hospitals, NGOs which have contact point for disaster response. 2) Ex-participants for the training and dialogue programs "Emergency/Disaster Medicine" or "JICA Disaster Network for Asia"</p> | |
| <p style="text-align: center;">CONTENTS</p> | <p>PROGRAM PERIOD</p> | <p>Oct.6.2009 ~ Oct.16.2009</p> |
| <p>This program is consists of following items ; (1) Presentation and discttution about the current status of emergency/disaster medicine in participating countries and Japan in the Mini Symposium. (2) Explanation of "JICA Global Network" and discussion about 1) networking among stakeholders and 2) effective use of network at the time of disaster (3) Site visit</p> | <p>IMPLEMENTING PARTNER</p> | <p>Saiseikai Senri Hospital</p> |
| | <p>JICA CENTER</p> | <p>JICA Osaka</p> |
| | <p>COOPERATION PERIOD</p> | <p>2008~2010</p> |
| | <p>REMARKS</p> | <p>Most of the program will be jointly conducted with the group training program, "Emergency Disaster Medicine"</p> |