

No	Training name	Sector	Sub-Sector	Contents
1	Sustainable forest/natural resources management based on market mechanism	Nature Conservation	Sustainable Use of Natural Resources	Hokkaido has outstanding regional-brands with various efforts for value and quality control by certification systems. JICA's project in Ethiopia contributed to improving livelihood in local communities through acquiring international certification for coffee products. This course aims to enhance the capacity for regional development utilizing certification systems and regional-branding of natural resources.
2	Remote Sensing of Forest Resources	Nature Conservation	Sustainable Use of Natural Resources	REDD+ is well known as an urgent issue in global society. But in many developing countries, there are not sufficient systems nor personnel so that they can investigate forest resources, which is basic information for REDD. In this training, participants can acquire basic remote sensing skills and make a database using basic GIS technique in order to understand forest resources in their own countries.
3	Sustainable Natural Resource Management through Collaborative Management of Protected Areas	Nature Conservation	Conservation of Biodiversity	This program aims to understand the collaborative protected area management and sustainable natural resources use which are based on consensus among various stakeholders such as communities and private sectors. Participants will apply knowledge and lessons learned from training in their own each country.
4	Sustainable Forestry Management with Community Participation	Nature Conservation	Sustainable Use of Natural Resources	This program is designed to develop capacity to carry out forestry management through a variety of activities based on community participation.
5	Proceeding Ability of Policy Making for Sustainable Forest Management	Nature Conservation	Sustainable Use of Natural Resources	While the importance of forest increases globally, deforestation and forest degradation proceed in many countries. It is urgent issue to develop abilities of officials in charge of forest management. On this course, trainees' ability is improved through studies on advanced techniques/activities in Japan and the global trend, and making action plan for SFM (Sustainable Forest Management) in their countries.
6	Integrated basin management for sustainable use and preservation of water resources (lakes, rivers and coastal waters)	Nature Conservation	Conservation of Biodiversity	Participants will understand the importance of proper management of "Lentic-Lotic System" including lakes, rivers, coastal waters etc. which have various stakeholders based on "Integrated Lake Basin Management (ILBM)," which aims at integral pursuit of six issues (Institutions, Policies, Participation, Technologies, Knowledge and Information, and Finance).
7	GIS and Remote Sensing utilized for Biodiversity Information System and Participatory Approach toward Biodiversity Conservation Actions	Nature Conservation	Conservation of Biodiversity	In the National Biodiversity Strategy of Japan 2010, it showed a vision of achieving the world of "maintain ecosystem services, provide their benefits for everyone, evaluate/conservate biodiversity, utilize it wisely". For the achievement, understanding current status, accumulating/sharing information, actions based on the fact and consensus building between stakeholders, are required. (*)
8	Promotion of SATOYAMA Initiative: Biodiversity conservation and rural development through the sustainable management of natural resources	Nature Conservation	Conservation of Biodiversity	Participants will learn the cases of natural resource management of Satoyama in Japan and other parts of the world to make the plan for the rural development in their own countries from the viewpoint of the reconciliation between nature conservation and livelihood promotion.

9	Sustainable use of wetland resources for local benefit	Nature Conservation	Conservation of Biodiversity	Concept/Technology of conservation activities/raising awareness/promoting environmental education with local people and of introducing economic activities like ecotours, necessary for sustainable regional development utilizing natural resources, are transferred to participants, through case studies in Japan, referring to conservation of wetland, a core element of biodiversity being deteriorated worldwide.
10	Adaptive Watershed Management to Climate Changes:Flood Control and Ecosystem Conservation	Nature Conservation	Conservation of Biodiversity	Conventional flood countermeasures are hardly responded to unexpected level of rain and drought caused by climate change. Disaster-prevention measures including sustainable forest management for strengthening resilience are essential to keep the balance between ecosystem conservation and flood control. Therefore adaptive watershed management is necessary for both disaster reduction & ecosystem conservation.
11	Industrial Pollution Control Management	Environmental Management	Environmental Administration	This program aims to propose a practical action plan for industrial pollution control management and to develop human resources in the field with an understanding of air pollution, water pollution and waste disposal pollution, as well as provides method for improvement of environmental issue through looking at how industrial environments have been improved in Japan and Kitakyushu.
12	Capacity Building for Ratification and Implementation of the Minamata Convention on Mercury	Environmental Management	Environmental Administration	
13	Environmental Impact Assessment in ODA Projects (EIA as a Tool for Sustainable Development)	Environmental Management	Environmental Administration	Those who are in charge of EIA in developing countries enhance their ability through this training course in which EIA system and cases in Japan are introduced and EIA required for ODA is understood so that sustainable development with environmental consideration is promoted in developing countries with ODA.
14	Air Pollution Source Management	Environmental Management	Air Pollution/Acid Rain	This training program intends to transfer methodologies and techniques for air pollution control. Participants are able to acquire practical knowledge and techniques, as the city government and private enterprises in Kitakyushu City have accumulated various technologies and experience in the field through their history of pollution control and international cooperation.
15	Capacity Building towards Air Quality Management	Environmental Management	Air Pollution/Acid Rain	To reduce potential adverse impacts of air pollutants on human health and ecosystems in developing countries, proper air quality management is required at all levels. This project aims to develop capacity for air quality management based on scientific tools, including atmospheric monitoring, emission inventory and model simulation, making use of the knowledge and experiences that Japan possesses.
16	Operation and Maintenance of Sewerage System	Environmental Management	Water Pollution	By the cooperation of the local city governments, who owns and manages the sewerage systems in Japan, the participants will grasp the overview of the sewerage system, including the management aspect.  The course mainly deals with the sewerage systems for large cities, but the systems for small-medium scale will be also introduced.
17	Water Environment Administration	Environmental Management	Water Pollution	Participants learn experience of pollution related to water environment, and sustainable preservation and utilization of water environment in Japan. Especially learn history and outline about preparation of legal structure. Based on it, learn roles of administration, private sector and citizens. Finally aims to enhance the ability for making and implementation of policy in participant's organization.

18	Sewerage and Urban Drainage Management		Environmental Management	Water Pollution	In order to improve the hygienic environment and to reduce flood damages in developing countries, it is essential to draft a plan and implement a project for appropriate sewerage and urban stormwater drainage management. Participants will understand the basic concept of sewerage (sewerage) and urban stormwater drainage (removal of rain water) management and draft a master plan for sewerage and urban stormwater.
19	Enhancement of Solid Waste Management Capacity (Advance, Planning&Policy)		Environmental Management	Urban Solid Wastes	Through lectures and field visits about Japanese strategies and activities by government (central and local), corporates and communities, this course aims to clarify the issues and enhance capacity of solid waste management, especially recourses circulation, 3Rs, social awareness and citizen participation. Through the above, participants will formulate action plans towards sustainable recycle-oriented socie
20	Advancement of Solid Waste Management Technologies (Advance, Technique)		Environmental Management	Urban Solid Wastes	This program is designed for engineering officers engaged in waste management. In particular, it focuses on treatment processes of sanitary landfill and 3R rather than collection and transportation as an advanced course. Participants will be able to learn about relevant techniques such as an innovative project of Eco-town, semi aerobic landfill, composting, industrial waste treatment and so forth.
21	Comprehensive Waste Management		Environmental Management	Urban Solid Wastes	From practical examples of Japan, participants learn appropriate solid waste management (reduction of discharge, collection, transportation, disposal, citizen participation and 3R, etc.) in order to find appropriate techniques for participating countries to formulate action plan. Good practices in solid waste management are also shared among each participant to find concrete solutions to their issues.
22	Management of Composting Project		Environmental Management	Urban Solid Wastes	This training program intends to transfer techniques and know-hows on management of composting projects, including technical information, quality control, marketing, and capacity development of stakeholders. Since organic waste represents around 60% of total waste in developing countries, promotion of composting is effective as a measure to reduce solid waste.
23	Design and Maintenance of Semi Aerobic Landfill Site (Fukuoka Method)		Environmental Management	Urban Solid Wastes	This training program intends to promote introduction and effective management of semi aerobic landfill (Fukuoka Method), one of techniques for final disposal site. Participants are able to enhance practical knowledge and techniques, as the curriculum covers design, maintenance, and conservation of surrounding environment, focusing on practices.
24	Improvement of Solid Waste Management Technologies(Basic, Technique)		Environmental Management	Urban Solid Wastes	It aims at providing integrated knowledge shearing opportunity for solid waste management (SWM): planning, collection, intermediate treatment, final disposal, and recycling by learning mainly from major cities in the Kansai region. It is suitable for practitioners (engineer, technician, local/central government officer) in SWM to acquire necessary knowledge and skills towards better SWM in their country.
25	Development of Recycling Policy		Environmental Management	Industrial Solid Wastes	To achieve sustainable economic growth in developing countries, there is a growing necessity for establishing a society with environmentally-sound material cycle by effective utilization of resources. For this purpose, industrial policy approach which promotes development of recycling industry is essential. This course fosters talent to plan recycling policy through learning Japanese experience such as EPR.
26	Adaptation to Climate Change		Environmental Management	Global Warming	It focuses on policy making such as international framework and Japan's policy on Adaptation to Climate Change in 1st year, while it focuses on sectoral Adaptation approaches such as forecast of Climate Change, Impact Assessment on Climate Change, Sectoral vulnerability assessment (ex. agriculture, disaster prevention) in 2nd-3rd years.

27	Ecosystem-based Solutions for Disaster Risk Reduction (Eco-DRR)	Nature Conservation	Conservation of Biodiversity	Natural disasters have been increasing in frequency and severity in recent years. All actors involved in disaster risk reduction (DRR) need to understand the importance of proactive/comprehensive risk reduction/preparedness initiatives besides post disaster efforts. Eco-DRR is also one of the measures, which requires a comprehensive, integrated and continuous evolution from disaster management perspectives.
28	Coastal and Marine Ecosystem Conservation through Collaborative Management of Marine Protected Areas	Nature Conservation	Conservation of Biodiversity	When establishing protected areas, coordination on resource usage is essential with the people living within/around them. This training focus on coastal/marine ecosystems and aims to understand: the Satoyama/Satoumi concept for societies in harmony with nature; Japan's zoning-based management system; and the sustainable use of natural resources with the participation of local people and the private-sector.
29	Eco-tourism for Officials on Nature Conservation	Nature Conservation	Sustainable Use of Natural Resources	Ecotourism can be a valuable measure towards using the natural environment wisely; contributing towards fund raising for biodiversity conservation as well as the improvement of awareness and livelihoods for the local people. This training aims to strengthen the capacity of administrators in charge of promoting/developing nature conservation plans/projects including ecotourism in and around nature reserves.
30	Control of Air Pollution from Motor Vehicles	Environmental Management	Air Pollution/Acid Rain	This course offers methods to design road traffic environment management plan, focusing on automobile pollution countermeasures, taking into account not only technical aspects of automobile exhaust gas countermeasures but also social aspects such as urban transport planning and approach to Environmentally Sustainable Transport (EST) centering on public transport as Environmentally Sound Technology (EST).
31	Capacity strengthening for multi-media mercury monitoring (4M)	Environmental Management	Other Environmental Management Issues	Minamata Convention on Mercury adopted in 2013 requests the Parties to report the information on mercury and the progress of the measures implemented. The system of the mercury monitoring, however, has not been established in many countries in Asia-Pacific region. This course includes training of sampling and analytical methods of mercury to start up the mercury monitoring in each country.
32	On-Site Wastewater Treatment System	Environmental Management	Water Pollution	To transfer the knowledge/skill for On-site wastewater treatment system including the technology, finance, O&M, planning, etc, which leads to enhance the capacity for tackling wastewater treatment issue
33	Enhancement of Solid Waste Management Capacity for Waste Power Generation	Environmental Management	Urban Solid Wastes	The purpose of this training course is to learn fundamental knowledge on waste power generation and on the solid waste management regarding waste incineration for power generation.
34	Climate Change -Toward Low Carbon and Resilient Development-	Environmental Management	Global Warming	Under Paris Agreement adopted in COP21 2015, it was agreed that all parties including developing countries shall communicate or update their nationally determined contribution (NDC) for climate change every five years. This training course is to share knowledge and experiences which are necessary for implementation of climate change mitigation/adaptation actions in developing countries.