

Target Countries : Countries and areas which have to manage surface water (river etc.)

Course No. : J1804142 **No. :** 1884836

Sector : Water Resources/Disaster Management/Wind and Flood Disaster(Flood Control)

Sub-Sector : Water Resources/Disaster Management/Comprehensive Water Resources Management

Language : English

Outline

This program is designed for managerial officials to obtain and understand meanings, basic knowledge of technology and know-how of the hydro-meteorological data observation as well as analytical technique and applied technology. In Japan, technology of flood control and water utilization has been developed based on the long-term observation and accumulated hydro-meteorological data.

Objective/Outcome	Target Organization / Group	
<p>【Objective】 This program aims to enhance knowledge about the importance of hydro-meteorological observation in river basin management and the methods of hydro-meteorological data observation and management.</p> <p>【Outcome】 (1) Concept -Importance of Hydro-meteorological Data Observation- To understand the necessity and objectives of hydro-meteorological data observation regarding river basin management and the process and know-how of observing and publishing hydro-meteorological data” (2) Observation To understand the methods of making preparations, standardization/inspection/maintenance of instruments and hydro-meteorological observation” (3) Data Management To understand the methods of quality control, processing and publishing of hydro-meteorological data” (4) Formulating “Improvement Plan” To draft “Improvement Plan” that improves the condition of data observation and management in each participants’ countries</p>	<p>【Target Organization】 River Basin Organizations (RBOs), administrative organizations or central/local governmental authorities related to river/water resources management (including irrigation and river basin organizations)</p> <p>【Target Group】 (1) be responsible for observation and management of hydro-meteorological data, (2) be university graduates from the faculty of engineering such as civil, sanitary, environmental, or have equivalent academic background, (3) have more than 5 years of work experience in the said fields, (4) be less than 45 years of age (preferred),</p>	
<p>Contents</p> <p>1. Concept -Importance of Hydro-meteorological Data Observation- (1) Utilizing observation data - Planning for flood management, water use and environment, Measures against disaster(flood and drought), Daily water use (2) Applying observation data to the improvement in accuracy of radar rain gauges and meteorological satellites (3) Sharing system of observation data 2. Observation (1) Setting up observation points - Stationing in the river basin, Appropriate selection of each point, Sign installation, Servicing observation ledger (2) Gauges and meters - Required standards, Accuracy screening, Installing backup instruments, Daily check (3) Observers - Capacity, Know-how, Equipment, Safety management (4) Operations - Methods, Know-how, Manuals 3. Data Management (1) Style setting (based on hydro-meteorological factors) (2) Split of work&preparations - Collecting data, Verifying data, Processing data, Storing original data (3) Verification (Quality management) - Error check, Homogeneity check, Missing value correction, Outlier check (4) Processing - Digitization, Formulating H-Q curve (5) Storing and publishing -Keeping Field books and Self-recording paper, Database construction, Publishing Data(Data distribution and annual report) 4. Formulating “Improvement Plan” (1) Presentation of “Job Report” (2) Drafting and presentation of “Improvement Plan”</p>	<p>Course Period</p>	<p>2018/10/14~2018/10/27</p>
	<p>Department in Charge</p>	<p>Global Environment Department</p>
	<p>JICA Center</p>	<p>JICA Tokyo (Economy&Env.)</p>
	<p>Cooperation Period</p>	<p>2016~2018</p>
<p>Implementing Partner</p>	<p>Japan Water Agency</p>	
<p>Remarks and Website</p>	<p>Staff in charge of making policy(rules, regulations and guidelines) is expected to participate in for the structure improvement.</p>	