This program is designed for an administrative officer to gain the knowledge and to plan countermeasures against Water Resources Management issues in the respective countries by applying the concept of Integrated Water Resources Management (IWRM).

**Objective/Outcome**

This course aims at the capacity development of the participants on the planning and implementation of IWRM.

1. To understand the concept of IWRM
2. To understand the hydrological and water-demand-supply balance, the methods of monitoring, assessment and analysis for planning and implementing of IWRM
3. To understand the water resource development plan, the fair and efficient water utilization plan, the planning methods and the practice of IWRM
4. To understand the causes of water conflicts among different sectors, regions and those of between upstream and downstream, and to get the clues to solve water conflicts
5. To formulate an action plan to implement IWRM in the certain river basin by prioritizing current problems and solving them by using acquired skills in the training course

**Contents**

- **Lecture** Outline of IWRM, Global Warming issues and its impact
- **Lecture** Surface and ground water – Development/Utilization/Administration –, Water demand management (domestic and agricultural water), Sustainable groundwater use, Water supply and demand control in waterworks side
- **Lecture**/Site Observation Monitoring water table and land subsidence
- **Lecture** Outline of water resources policy in Japan, Application of Japanese efficient water use and advanced water related technologies to foreign countries
- **Lecture**/Site Observation/Discussion Consensus building for comprehensive river development, Utilization of Decision Support System, Implementation of IWRM in international rivers, Case study of water conflict management in Japan and the world, Planning process with conflict management
- **Discussion**Job Report Presentation, Action Plan Presentation

**Target Organization / Group**

Administrative organization or a department of central/local government concerning with IWRM or River Basin Organizations (RBOs)

1. To be responsible for a plan on implementation of IWRM in an administrative organization or a department of central/local government or RBOs
2. To have more than 5 years of occupational experience in water resources management

**Course Period**

- (A) 2017/11/08 ~ 2017/12/02
- (B) 2018/01/07 ~ 2018/02/03

**Department in Charge**

Global Environment Department

- (A) JICA Tokyo (Economy & Env.) /(B) JIC A Kyushu

**JICA Center**

- Cooperation Period 2015 ~ 2017