

**Target Countries :**

**Course No. :** (A) 201984918-J002/(B) 201984972-J002

**No. :** (A) 201984918/(B) 201984972

**Sector :** Transportation/CapacityDevelopment for Transport Sector

**Sub-Sector :**

**Language :** (A) English/(B) English

**Outline**

“Road Asset Management” is to implement a maintenance plan, which is minimized the life cycle cost of road assets, such as pavements, bridges, tunnels and other road structures, by grasping the current conditions of those assets appropriately, predicting deterioration and damage of them individually, and achieving an extension of life span of those assets due to repair and reinforce those appropriately. The purpose of this training is to enhance skills for implementing Road Asset Management by acquiring necessary knowledge and techniques for appropriate maintenance works and maintenance plan of road assets in each target country.

Objective/Outcome	Target Organization / Group	
<p><b>【Objective】</b> To formulate Action Plan for establishment of Road Asset Management in each country, by understanding the efforts and related research &amp; development toward establishing Road Asset Management System in Japan, the method of planning budget plan based on the inspection result of road assets, and the method of prediction soundness.</p> <p><b>【Outcome】</b> 1. To understand the current situation and maintenance methods of road assets in Japan. 2. To acquire skills that can be introduced in each target country by understanding efforts, related research &amp; development, and human resource development toward establishing Road Asset Management System in Japan. 3. To understand the characteristics and damage of concrete / steel structures so as to acquire the concept of an infrastructure management by utilizing the inspection data. 4. To compile the Action Plan for establishing Road Asset Management in each target country.</p>	<p><b>【Target Organization】</b> Organizations that have jurisdiction over maintenance of road assets of the country</p> <p><b>【Target Group】</b> Junior or Mid-level administrators who formulate road assets operation and maintenance plan. Fluent in English.</p>	
<p><b>Contents</b></p> <p>[Preliminary Phase] To prepare a report on the current situation of the maintenance of road assets.</p> <p>[Core Activities] 1. Lectures on the current situation of the maintenance of road assets in Japan, the characteristics and damages of concrete / steel structures, and the concept of management of road infrastructures by utilizing the inspection data. 2. Study Tours; (1)Advanced Technology (ex. highway maintenance technology, pavement maintenance system, long span bridge maintenance system, bridge facility inspection, maintenance / repair technical standards and manuals, human resource development) (2)Research and Development by Universities (ex. model facility of concrete deterioration and aging structure, bridge inspection assisted with robot technology, infrastructures lifetime-extending maintenance technology) (3)Efforts by local governments (ex. shift to preventive maintenance, human resource development) (4)Advanced Technology by private companies (ex. inspection robot technology, monitoring technology, pavement repair material, recycle technology) 3. Exercise on inspection data (analysis of the trend of bridge deterioration, development of prediction soundness curve for bridge deterioration, data mapping for bridge locations, data processing and analysis, etc.) 4. To make an action plan for establishing Road Asset Management by understanding the current situation and issues of road assets in each target country.</p> <p>[Finalization Phase] 1. To discuss on and revise the action plan in the target organization. 2. To implement measures to maintain road assets according to the action plan. 3. Twelve months after returning country, the participants submit a review report about the situation of implementing the action plan.</p>	<p><b>Course Period</b></p>	<p>(A) 2019/8/1~2019/8/21 (B) 2019/11/1~2019/11/21</p>
	<p><b>Department in Charge</b></p>	<p>Infrastructure and Peacebuilding Department</p>
	<p><b>JICA Center</b></p>	<p>(A) JICA Tokyo (Economy&amp;Env.) (B) JICA Tokyo (Economy&amp;Env.)</p>
	<p><b>Cooperation Period</b></p>	<p>2019~2021</p>

<p><b>Implementing Partner</b></p>	<p>(A) Under Planning/(B) Under Planning</p>
<p><b>Remarks and Website</b></p>	