



Urban Ecological Restoration Course

Length: 1 week

Target group: Practitioners (mid-level project managers) from Asian and Pacific countries

Participants should be public officer of local governments, preferably middle managers, in the field of urban planning and environment and/or senior and middle level project managers of private sectors and NGOs engaged in the field of urban planning, development and environment

Objectives

- To highlight eco-restoration as a strategic approaches to sustainable urbanization in the Asia and Pacific region by exploring its environmental and social benefits, and potential contribution to climate change adaptation
- To provide research and analysis methodology for effective ecological restoration planning and implementation practices for creating sustainable eco-cities in participating countries

Contents

The course combined interactive learning techniques; lectures, case study presentations, dialogue opportunities, field visits and group work, providing improved understanding and capabilities on sustainable urbanization.

- Overview and discuss on eco-restoration as an approach to sustainable urbanization in the Asia and Pacific region; its function, value and benefits with a linkage to climate change adaptation
- Learn from restoration techniques that have been successfully applied in urban areas in the northwest region of the US
- Research and analyze methods in restoring urban ecosystem; and
- Learn theories and applicable methods in urban ecological planning, design and restoration
- Field trips will provide participants with the opportunity to complement the theories and learn first-hand from successful Korean eco-restoration projects

PROGRAM : "URBAN ECOLOGICAL RESTORATION COURSE"

<Lectures>

- Eco-restoration concept and principles
Value and benefits of restoring ecosystems, Urban eco-restoration and eco-city creation in Korea
- Ecological restoration planning & practice
Urban ecology, Restoration planning and implementation, Ecological integration of infrastructure, Urban watershed planning and restoration, Site maintenance and adaptive management
- Restoring water system functions
Restoration and management of urban systems, Designing and constructing fluvial systems, Wetland ecology, functions and conservation, Stormwater treatment and erosion control using vegetation, Natural drainage systems
- Restoration techniques and community involvement
Mitigation sequencing, performance measures and monitoring, Soils, plant selection and invasive species control, Stormwater treatment planning & design with a focus on education, Habitat restoration and urban wildlife management techniques
- Stakeholder involvement, art and education in restoration projects
** All the theories are complemented by proper case examples.*

<Practices>

- Field trips to rain garden, stream restored site, urban park, natural drainage facility
- Country case study and group exercise