



# Institute for Capacity Development (ICD)

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## Environmental Impact Assessment and Land Reclamation

### Objectives

At the end of the programme, participants should be able to:

- Plan formal environmental impact assessment along given guidelines to guide in land reclamation decisions
- Salvage topsoil to be used later for revegetation.
- Preparing an “approved” local seed mix list for planting at reclaimed land
- Identify the environmental and biological controls on plant community composition and ecosystem structure.
- Evaluate suitable technologies for the remediation of different types of contaminated land.
- Design and assess the feasibility and appropriateness of a habitat restoration scheme
- Ensure that degraded land is returned to the best possible condition for use after excavation is completed

### Target audience:

- Planners;
- Government agency personnel;
- Environmental Officers and Consultants,
- Development workers for domestic and international donor organizations,
- Extension and community development workers;
- Agriculturalists
- Land Technicians and Officers

### Course Content

- EIA and sustainable development
- Fundamental principles and basic methods of environmental impact assessment
- Land use planning and the EIA
- Data information and analysis systems for environmental variables
- Environmental impact assessment methodologies
- Specific methods for some environmental variables
- Resolution of conflicts in the environmental impact assessment
- Ecosystem degradation and management
- Methods for assessing the magnitude and significance of impacts.
- Environmental management tools
- Environmental performance evaluation

- Recovery of degraded areas,
- Practices and techniques of revegetation of disturbed lands associated with oil and gas exploration, drilling and well abandonment.
- Types of Plants Used in Lands Reclamation
- Factors in Selecting Plants for Reclamation
- Assessment and surveying of native plant species
- The collection of native plant species for revegetation
- Soil Testing for Planting Vegetation
- Seeding and Planting Techniques
- Evaluation of purity and germination of seeds for reclamation sites
- Nursery Development and Management
- Plant Development and Nursery Inventory
- Disease and Pest Control
- Assessment of Revegetation Success
- Production of reclamation vegetation and follow-up monitoring.
- Database Management
- Action planning

Dates: 05<sup>th</sup> – 16<sup>th</sup> November 2018

Duration: 2 Weeks

Course Costs: US\$2850/delegate

Venue: Pretoria, RSA