



# Institute for Capacity Development (ICD)

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## Environmental Monitoring in the Energy Sector

### 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
- Evaluate suitable technologies for the remediation of different types of contaminated land.
- Ensure that degraded land is returned to the best possible condition for use after excavation is completed
- Protecting the atmosphere and manage land sustainably
- Manage hazardous wastes and radioactive wastes
- Manage solid wastes and sewage

### 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

- General Management Principles and Skills
- Overview of the oil and gas exploration and production process
- Regulatory framework, institutional factors and infrastructure in the Energy Sector
- EIA and sustainable development
- Fundamental principles and basic methods of environmental impact assessment
- Resolution of conflicts in the environmental impact assessment
- Ecosystem degradation and management
- Methods for assessing the magnitude and significance of impacts.
- Environmental management tools
- Air emissions
- Hydrocarbon and produced water releases
- Aquatic impacts

- Terrestrial impacts
- Ecosystem impacts
- Drilling wastes
- Socio-Economic/Cultural Impacts
- Land use conflicts
- Impact on local communities
- Environmental Risk Management
- Environmental role in oil and gas emergency planning and response
- Solid waste reduction methods
- Energy efficiency within oil and gas
- Decommissioning and Rehabilitation
- Reclamation
- Rehabilitation plans
- Recovery of degraded areas,
- Practices and techniques of revegetation of disturbed lands associated with oil and gas exploration, drilling and well abandonment.
- Pollution prevention and cleaner production
- Waste treatment and disposal techniques
- Oil spill contingency planning
- Production of reclamation vegetation and follow-up monitoring.
- Database Management
- Action planning

Dates: 03<sup>rd</sup> – 14<sup>th</sup> December 2018

Duration: 2 Weeks

Course Costs: US\$2850/delegate

Venue: Pretoria, RSA