

# H S E

HEALTH

SAFETY

ENVIRONMENT



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## Environmental Impact Assessment

**Duration:** 5 Days

### Introduction

Economic, social and environmental change is inherent to development. Whilst development aims to bring about positive change it can lead to conflicts. In the past, the promotion of economic growth as the motor for increased wellbeing was the main development thrust with little

sensitivity to adverse social or environmental impacts. The need to avoid adverse impacts and to ensure long term benefits led to the concept of sustainability. This has become accepted as an essential feature of development if the aim of increased wellbeing and greater equity in fulfilling basic needs to be met for this and future generations. In order to predict environmental impacts of any development activity and to provide an opportunity to mitigate negative impacts and enhance positive impacts, the environmental impact assessment (EIA) procedure was developed in the 1970s. This course aims to assist staff from different disciplines and backgrounds (government officials, consultants and planners) to incorporate environmental considerations into planning, designing, implementing and regulating programs, plans and projects: thus leading to sustainable development.

## **Who Should Attend?**

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This course is designed for developers, policymakers, project managers and engineers, executive project control personnel. Also, consultants whose primary responsibilities are in planning, supervising and executing major projects will gain insights into the nature and challenges of environment preserve and adverse impact assessment.

## **Course Objectives:**

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- Discussion and definition of environmental issues and concerns.
- Coverage of baseline environment setting.
- Discussion of the environmental problems and their adverse impacts.
- Coverage of related laws, decrees and international conventions.
- Discussion of political, economical and social aspects.
- Description of the methodology, procedures, techniques and outputs of EIA.
- Discussion of development potential impacts and mitigation measures.
- Demonstration of the integrated environmental management plan.
- Providing inter-disciplinary advice to those engaged in preparing EIAs.
- Enhancing institutional capacity for carrying out an EIA.

## Course Outline:

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### Day 1:

0800 - 0830 Registration & Coffee

0830 - 0845 Welcome

#### **Introduction:**

- 0845 - 1030
  - Definitions, concepts and objectives
- Origins of EIA
- Valuing the environment and justification for EIA
- 1030 - 1045 Break
  - Related Laws and Decrees
- 1045 - 1230
  - International Conventions
- Political, social, institutional and economical frameworks
- 1230 - 1245 Break & Praying Time
  - Building institutional capacity
- 1245 - 0200
  - Group discussion
- 0020 - 0300 Lunch & end of the day

### Day 2

0800 - 0815 Tea & Coffee

#### **EIA Process I:**

- 0815 - 1030
  - Resources
- Screening

- Project Criteria

- Sensitive area criteria

1030 -1045 Break

- Scoping

1045 – 1230 • Baseline setting

- Without project description

1230 - 1245 Break & Praying Time

- With project description

1245 - 0200

- Group discussion

0020 - 0300 Lunch & end of the day

### **Day3:**

0800 - 0815 Tea & Coffee Break

#### **EIA Process II:**

- 0815 - 1030
- Impacts prediction and evaluation
  - Pollution hazards and nuisance control

1030 -1045 Break

- Hazardous wastes

- 1045 – 1230
- Prediction methods and interpretation

1230 - 1245 Break & Praying Time

- Mitigation Measures

- 1245 - 0200
- Assessment of comparisons
  - Concept of alternatives

0020 - 0300 Lunch & end of the day

## Day 4:

0800 - 0815 Tea & Coffee

### **Management, monitoring and auditing :**

- 0815 - 1030
- Contractual background
  - Implementation of action plan
  - Management organization

1030 -1045 Break

- 1045 – 1230
- Managing uncertainty
  - Monitoring programs
  - Environmental supervision

1230 - 1245 Break & Praying Time

- 1245 - 0200
- Auditing
  - Public participation
  - Group discussion

0020 - 0300 Lunch & end of the day

## Day 5

0800 - 0815 Tea & Coffee

### **EIA Techniques:**

- 0815 - 1030
- Baseline studies
  - ICID Checklist
  - Matrices
  - Network diagrams

1030 -1045 Break

- 1045 – 1230
- Overlays
  - Mathematical Modeling

- Expert Advice
- Economic techniques

1230 - 1245 Break & Praying Time

- Final report: Environmental Impact Statement EIS

1245 - 0200

- Case study
- Group discussion

0200 - 0230

- Presentation of Certificate

0230            Lunch