

## COURSE DETAILS

A. Name of the Institute	<b>Environment Protection Training and Research Institute (EPTRI) Hyderabad, Telangana, India</b>
B. Name/Title of the Course	<b>Environment Impact Assessment (EIA) – Development Projects</b>
C. Course Dates with Duration in Weeks	From 17 <sup>th</sup> October to 05 <sup>th</sup> November 2022 Three (3) weeks
D. Eligibility Criteria for Participants 1. Educational Qualifications 2. Work Experience 3. Age Limit 4. Target Group	<ul style="list-style-type: none"> <li>• Bachelor’s Degree in Engineering / Science / Social Sciences</li> <li>• Minimum 2 years in relevant area</li> <li>• 25-45 years</li> <li>• Junior to Senior Level Government officials, Professional and Academicians involved in managing Environment for Development including the preparation of EIA &amp; EMP Reports.</li> </ul>
E. Aims & Objectives of the Course	Environmental planning, including assessment of environmental impact of development projects has been made mandatory in developing countries. This EIA training is designed to introduce the concept, history, outlines and methodology adopted, placing it within the framework of sustainable development and exposing the trainees to some of the case studies in the field.
F. Course Contents / Syllabus	Course content overleaf
G. Mode of Evaluation of performance of the participants	<p>1. During the course, questions will be posed to the participants.</p> <p>2. Project work will be facilitated; they will do the project work and make presentation which will help to evaluate the performance of the participants.</p> <p>3. Participants will make presentation on existing and future plans of action in their respective organizations. This exercise will provide a chance to the participants to think through what they have learnt and new ideas they can adopt.</p>

## **Environment Impact Assessment – Development Projects**

**Rationale for training on Environmental Impact Assessment (EIA):**

Environmental planning, including the assessment of the environmental impact of development projects has been made mandatory in developing countries over a period of time. Keeping this in view, the EIA training programme is designed to introduce the concept of EIA, its history, outlines and methodology adopted in India, placing it within the framework of sustainable development.

**Course outline:**

**1. Introduction**

- i. Introduction of participants
- ii. Welcome statement – EPTRI
- iii. Participant’s expectations
- iv. Introduction, overview and objectives of the Training Programme
- v. Tour of EPTRI

**2. Environment?**

- i. Definition of the term “Environment”
- ii. Different definitions of Environment
- iii. Scope of the term Environment including different elements that make up the environment
- iv. Importance of proper understanding of the term “Environment” to the conduct of satisfactory EIA
- v. Environment and development process – linkages and emerging issues
- vi. Overview of the environmental problems in India
- vii. Underlying causes of environmental degradation
- viii. Global environmental issues
- ix. Discussion
- x. Summary

**3. Introduction to EIA**

- i. Concept of EIA within the frameworks of sustainable development
- ii. History of EIA
- iii. Purpose and aims EIA’s
  - Activity – Introduction to EIA
- iv. Nature and scope of environmental issues and impacts
- v. Principles of EIA administration and practice
- vi. Key elements of the EIA process
  - Activity – Introduction to EIA practice
- vii. Costs and benefits of EIA
- viii. Common misconceptions about EIA
- ix. Summary

**4. Law, Policy and Institutional Arrangements**

- i. Introduction
- ii. About EIA Systems
- iii. EIA Policy and Legislation - Linkage between EIA and International Conventions
  - Activity – EIA Systems, Policy and Legislation

- iv. EIA in International and National Development Institutions
- v. EIA Policy and Legislation in India
- vi. Principles for a Functional EIA System
  - Assignment – Legal Requirements for EIA
  - Activity – Localisation of EIA Legislation
- vii. Summary

## **5. Stakeholder Involvement**

- i. Introduction
- ii. What is public involvement?
- iii. Stakeholders' involvement
- iv. Principles of public involvement
  - Activity – Public Involvement Principles
- v. Scope of involvement
- vi. Planning a public involvement programme
- vii. Public involvement techniques
  - Activity – Public Involvement Practice
- viii. Arguments for and against public involvement
- ix. Summary

## **6. Screening**

- i. Introduction
- ii. Screening Procedure
- iii. Project lists for screening
- iv. Preliminary EIA
  - Activity – Screening Basics
- v. Other types of Screening
- vi. Criteria for determination of the need for, and level of EIA
  - Activity – Screening Exercise
- vii. Summary

## **7. Scoping**

- i. Introduction
- ii. Purpose of Scoping
- iii. Approaches to Scoping
- iv. Scoping Methods
  - Activity – Scoping Basics
- v. Alternatives and Tiering
  - Activity – Scoping in Practice
- vi. EIA Terms of Reference
  - Assignment – Alternative Study
- vii. Summary

## **8. Impact Analysis/Assessment**

- i. Implications of the widening environment and sustainability agenda

- ii. Impact Identification
- iii. Impact Analysis/Prediction
  - Activity – Impact Analysis Basics
- iv. Characteristics of Environmental Impacts
  - Activity – Impact Characterisation
- v. Social Impact Assessment (SIA)
- vi. Evaluation of Impact Significance
- vii. Significance Criteria
  - Activity – Impact Significance Assessment
- viii. Summary

**9. Mitigation and Impact Management**

- i. Link between EIA Process and Mitigation
- ii. Main Elements of Mitigation
  - Activity – Mitigation Basics
- iii. Approaches to Mitigation
  - Activity – Mitigation of Specific Impacts
- iv. Environmental Management Plan (EMP) and Mitigation Measures
  - Assignment – Impact Assessment and Mitigation
- v. Summary and Conclusions

**10. Functional Areas their impacts, Mitigation and Management**

- i. Land Use
- ii. Meteorology
- iii. Air Pollution Monitoring, Prevention and Control
- iv. Air Quality Modelling and Prediction
- v. Water Pollution Monitoring, Prevention and Control
- vi. Ecology and Bio-diversity
- vii. Noise and Vibrations
- viii. Socio-Economic
- ix. Hydrology, Groundwater and Water Conservation and Geology
- x. Soil Conservation
- xi. Risk Assessment and Hazard Management
- xii. Solid and Hazardous Waste Management

**11. EIA Reporting**

- i. What is an EIA Report?
- ii. Typical Elements of an EIA Report
  - Activity – Basics of EIA Reporting
- iii. Shortcomings/Deficiencies Encountered in Preparing EIA Reports
- iv. Guidelines for Effective EIA Report Preparation and Production
  - Activity – The Non-Technical Summary/Executive Summary
  - Activity - EIA Reporting Practice

**12. Review of EIA Quality**

- i. Role and Purpose of EIA Review Process

- ii. Need for a Systematic Approach
- iii. Procedural Aspects
- iv. Main Steps in the EIA Review
  - Activity – EIA Quality Basics
- v. Carrying out the Review
  - Activity – EIA Report Quality Assessment Exercise
- vi. Procedures for Evaluating EIA Reports
  - Assignment – Essay
- vii. Summary

**13. Decision-making**

- i. Role of the Decision-makers
- ii. EIA as a part of the Decision-making Process
  - Activity – Decision-making Procedural Considerations
- iii. Responsibility of the Decision-makers
- iv. Summary

**14. Implementation and Follow-up**

- i. Key Objectives of EIA implementation and follow-up
- ii. Tools for Environmental Management and Performance Review
- iii. Monitoring
  - Activity – Implementation Management Planning
- iv. Post Project Monitoring
- v. Environmental Auditing
  - Activity – EMP and Audit Programme
- vi. Evaluation of EIA Effectiveness and Performance
- vii. Summary

**15. Sustainable Development Goals (SDG's)**

**16. Design Thinking for Social Impact**

**17. Wrap-up and disbursal of participant**