

COURSE DETAILS

A. Name of the Institute	Environment Protection Training and Research Institute (EPTRI), Hyderabad, Telangana
B. Name/title of the Course	Environmental and Social Impact Assessment of Development Projects (ESIA)
C. Proposed Dates and Duration of the Course in weeks / months	From: 01 st – 14 th July, 2025 Two (2) weeks
D. Eligibility Criteria for Participants 1. <i>Educational Qualification</i> 2. <i>Work Experience</i> 3. <i>Age Limit</i> 4. <i>Target group</i>	<ul style="list-style-type: none"> • Bachelor's Degree and above in Basic sciences/ Social Sciences and Humanities/ Management and Engineering • Minimum of 2years of experience • 25 – 45 years • Government officials from concerned departments, Practitioners, Academicians and Policy makers
E. Aims & Objectives of the Course	<p>To enable participants to foresee & design a proactive framework to mitigate the avoidable environmental and social impacts and implications of different Development Projects in a given areas / locations – so as to avoid the horrendous costs of course correction after the commissioning of the projects, and also to do periodical checks on Environmental & Social impacts during the life of the project.</p> <p>Objectives of ESIA</p> <ul style="list-style-type: none"> ❖ To assess the potential environmental and social impacts of a development project. ❖ To identify mitigation measures addressing environmental, social and economic concerns of stakeholders. • To ensure the compliance to the regulatory framework of Environmental & Social Governance.
F. Details / Content of the Course	Course content overleaf
G. Mode of Evaluation of Performance of the ITEC Participant	<ul style="list-style-type: none"> • Individual and group work to evaluate the understanding of the issues under discussion and retain the acquired knowledge. • Mock exercises, Role play, Case studies, Individual presentations and other tasks will be proposed to the participants.
H. Name of the Department	Training Division, EPTRI

Environmental and Social Impact Assessment of Development Projects (ESIA)

Rationale of the Course

Environmental and Social Impact Assessment (ESIA) is a critical process used to evaluate the potential environmental and social effects of proposed development projects before they are implemented. Environmental planning, including the assessment of the environmental and social impact of development projects has been made mandatory in developing countries over a period of time. Keeping this in view, the ESIA training programme is designed to introduce the concept of ESIA, its history, outlines and methodology adopted in India, placing it within the framework of sustainable development.

Contents of the Course:

1. Introduction

- i. Introduction of participants & Welcome statement – EPTRI
- ii. Participant's expectations
- iii. Introduction, overview and objectives of the Training Programme
- iv. 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
- v. Satisfactory EIA
- vi. Environment and development process – linkages and emerging issues
- vii. Overview of the environmental problems in India
- viii. Underlying causes of environmental degradation
- ix. Global environmental issues
- x. Discussion
- xi. Summary

3. Introduction to ESIA

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

4. Law, Policy and Institutional Arrangements

- i. Introduction about ESIA Systems
- ii. ESIA Policy and Legislation - Linkage between ESIA and International Conventions
- iii. Activity – ESIA Systems, Policy and Legislation
- iv. ESIA in International and National Development Institutions
- v. ESIA Policy and Legislation in India
- vi. Principles for a Functional ESIA System
- vii. Assignment – Legal Requirements for ESIA
- viii. Activity – Localization of ESIA Legislation
- ix. Summary

5. Stakeholder Involvement

- i. Introduction
- ii. What is public involvement?
- iii. Stakeholders' involvement
- iv. Principles of public involvement - d Activity – Public Involvement Principles
- v. Scope of involvement
- vi. Planning a public involvement programme

- vii. Public involvement techniques
 - viii. Activity – Public Involvement Practice
 - ix. Arguments for and against public involvement
 - x. Summary
- 6. Screening**
- i. Introduction
 - ii. Screening Procedure
 - iii. Project lists for screening
 - iv. Preliminary ESIA - Activity – Screening Basics
 - v. Other types of Screening
 - vi. Criteria for determination of the need for, and level of ESIA
 - vii. Activity – Screening Exercise
 - viii. Summary
- 7. Scoping**
- i. Introduction
 - ii. Purpose of Scoping
 - iii. Approaches to Scoping
 - iv. Scoping Methods
 - v. Activity – Scoping Basics
 - vi. Alternatives and Tiering
 - vii. Activity – Scoping in Practice
 - viii. ESIA Terms of Reference
 - ix. Assignment – Alternative Study
 - x. Summary
- 8. Environment & Social Impact Analysis/Assessment**
- i. Implications of the widening environment and sustainability agenda
 - ii. Impact Identification
 - iii. Impact Analysis/Prediction
 - iv. Activity – Impact Analysis Basics
 - v. Characteristics of Environmental Impacts
 - vi. Activity – Impact Characterization
 - vii. Social Impact Assessment (SIA)
 - viii. Evaluation of Impact Significance
 - ix. Significance Criteria
 - x. Activity – Impact Significance Assessment
 - xi. Summary
- 9. Mitigation and Impact Management**
- i. Link between ESIA Process and Mitigation
 - ii. Main Elements of Mitigation
 - iii. Activity – Mitigation Basics
 - iv. Approaches to Mitigation
 - v. Activity – Mitigation of Specific Impacts
 - vi. Environmental Management Plan (EMP) and Mitigation Measures
 - vii. Assignment – Impact Assessment and Mitigation
 - viii. Summary and Conclusions
- 10. Functional Areas their impacts, Mitigation and Management**
- i. Land Use & Meteorology
 - ii. Air Pollution Monitoring, Prevention and Control
 - iii. Air Quality Modelling and Prediction
 - iv. Water Pollution Monitoring, Prevention and Control
 - v. Ecology and Bio-diversity
 - vi. Noise and Vibrations
 - vii. Socio-Economic
 - viii. Hydrology, Groundwater and Water Conservation and Geology
 - ix. Soil Conservation
 - x. Risk Assessment and Hazard Management
 - xi. Solid and Hazardous Waste Management

11. ESIA Reporting

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

12. Review of ESIA Quality

- i. Role and Purpose of ESIA Review Process
- ii. Need for a Systematic Approach
- iii. Procedural Aspects
- iv. Main Steps in the ESIA Review
- v. Activity – ESIA Quality Basics
- vi. Carrying out the Review
- vii. Activity – ESIA Report Quality Assessment Exercise
- viii. Procedures for Evaluating EIA Reports
- ix. Assignment – Essay
- x. Summary

13. Decision-making

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

14. Implementation and Follow-up

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