

### COURSE DETAILS

A. Name of the Institute	<b>Environment Protection Training and Research Institute (EPTRI), Hyderabad, Telangana</b>
B. Name/title of the Course	<b>Natural Resource and Conservation Management</b>
C. Proposed Dates and Duration of the Course in weeks / months	From: 20 <sup>th</sup> August – 02 <sup>nd</sup> September, 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>	Bachelor's Degree in Basic sciences/ Social Sciences and Humanities/ Management and Engineering  Minimum of 2years of experience  25 –45years  Government officials from concerned departments, Practitioners, Academicians, Activists, and Policy makers
E. Aims & Objectives of the Course	The course will give an opportunity to learn about the conservation, management, and sustainable use of natural resources including land, soil, water, forests, wildlife and biodiversity. It also focuses on trends that influence the natural resources and the living conditions and how different management systems and approaches are used around the world to manage the natural resources. It will include current environmental technologies built for the environment and technologies for sustainable soil management, ground water protection methods and integrated water resources management.
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"> <li>• Individual and group work to evaluate the understanding of the issues under discussion and retain the acquired knowledge.</li> <li>• Mock exercises, Role play, Case studies, Individual presentations and other tasks will be proposed to the participants.</li> </ul>
H. Name of the Department	Training Division, EPTRI

## NATURAL RESOURCE AND CONSERVATION MANAGEMENT

### Rationale of the Course:

The course will give an opportunity to learn about trends that influence the environment and the living conditions and how different natural resource management systems and approaches are used around the world. It will include current environmental technologies built for the environment and technologies for sustainable soil management, groundwater protection methods, maintain ecological balance, preserve biodiversity and integrated water resources management.

### The objectives of the course on Natural Resource and Conservation Management:

- Learn global trends influencing the environment and living conditions
- Learn about different natural resource management systems and approaches used to manage the environment
- Learn about technological innovations in Resource Management
- Learn about the local, national and international conservation policies and framework
- Learn about technologies for sustainable soil management, ground water protection and integrated water resources management
- Learn about involvement of the local communities, industries and other stakeholders in sustainable resource management.

### Course Modules:

#### 1. Trends: National and Global

- a) Course structure
- b) Sustainable Development
- c) Sustainable Agriculture and Agro forestry
- d) Environment health
- e) Ecological restoration practices
- f) Integrated water resource management

#### 2. Natural Resource and Conservation Management

- a) Community management of forest
- b) Participatory management of water bodies
- c) Demand side management of water resources
- d) Augmenting water resources through raw water
- e) Rain water harvesting and conservation of water bodies
- f) Recharge of ground water tables
- g) Regeneration of waste/degraded lands through plantation trends
- h) Assessing water quality
- i) Sustainable forest management
- j) Sustainable Urban Planning and Green spaces
- k) Social Sustainability Analysis

#### 3. Natural Resource and Conservation Management by Utilities

- a) Integrated Urban Water Management(IUWM)–issues and challenges
- b) Case study: Strom water Management
- c) Case study: Water Supply and IUWM
- d) Community Education on Resource Conservation
- e) Natural resources Management in Rural Areas
- f) Waste to energy projects

#### 4. Other Technologies

- a) Remote Sensing and GIS Technologies for Resource Management and Conservation
- b) Soil testing for micro and macro nutrient analysis Ground water Protection
- c) Integrated fertilizer management and pest management
- d) Regional Water Resources Management
- e) Wildlife tracking and Conservation Technologies

#### 5. Design Thinking for natural resource and conservation management