

COURSE DETAILS

A. Name of the Institute	Environment Protection Training and Research Institute (EPTRI), Hyderabad, Telangana
B. Name/title of the Course	Climate Resilience and Disaster Risk Management(CRDRM)
C. Proposed Dates and Duration of the Course in weeks / months	From: 5 th - 18 th March 2026 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 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	Aim: To evaluate the Impacts of Climate induced disasters and to enable local institutions with climate adaptation, mitigation and resilience. And to illustrate disaster risk reduction and measures through technology transfer, financing and capacity building interventions. Objectives: • To deliberate on the climate action framework at National, Sub-National and local levels addressing adaptation, mitigation and resilience measures. • To deliberate on UN Sendai Framework at National, Sub-National and local levels for enhancing resilience of communities, build infrastructure and ecological assets against Climate Change disasters. • To explore community resilience to Climate Change disasters for scaling and sustaining such best practices. • To identify the roles and responsibilities of stakeholders and non-stakeholders in climate actions and Disaster Risk Management.
F. Details / Content of the Course	Course content overleaf
G. Mode of Evaluation of Performance of the ITEC Participant	• 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

Climate Resilience and Disaster Risk Management (CRDRM)

Rationale of the Course:

Considering the recent scenario of disasters, emergence of any natural/ anthropogenic disasters has triggered the preparedness of communities across the world, as the probabilities of these inevitable disasters are shooting up each successive year, irrespective of any historic or future projections analyzed. Disaster Risk Management has witnessed an evident shift in the past few years, from disaster relief to disaster reduction and is rapidly evolving into Climate Resilient Disaster Risk Management (CRDRM). Communities and Climate resilience experts managing the risks together can be considered as the disaster management strategy to leverage the strength of collective action and social leadership towards CRDRM. The Climate Resilient Disaster Risk Management (CRDRM) approach seeks to actively involve the Climate resilience perspective in the identification, analysis and monitoring of any disaster risk situation with the aim of reducing their vulnerabilities.

Objectives of the Course:

The broad objective of the course is to understand climate change impacts, risk assessment, vulnerability analysis, adaptation strategies, mitigation measures, community engagement, emergency preparedness, response plans, and post-disaster recovery, all with a focus on integrating climate change considerations into disaster management practices.

The specific objectives of the study are the following:

- To deliberate on the climate action framework at National, Sub-National and local levels addressing adaptation, mitigation and resilience measures.
- To deliberate on UN Sendai Framework at National, Sub-National and local levels for enhancing resilience of communities, build infrastructure and ecological assets against Climate Change disasters.
- To explore community resilience to Climate Change disasters for scaling and sustaining such best practices.
- To identify the roles and responsibilities of stakeholders and non-stakeholders in climate actions and Disaster Risk Management.

Modules of the Course:

1. CLIMATE SCIENCE BASICS:

- Climate change science and projected impacts
- Extreme weather events and their trends
- Climate change scenarios and vulnerability mapping

2. DISASTER RISK ASSESSMENT:

- Identifying hazards (floods, droughts, cyclones, heat waves)
- Assessing exposure and vulnerability of communities
- Analyzing risk factors (socioeconomic, environmental)
- Hazard, Risk and Vulnerability Assessment (HRVA)

3. ADAPTATION STRATEGIES:

- Nature-based solutions and eco-system based adaptation to Climate Change Disasters.
- Resilient Infrastructure adaptation (flood defenses, drought-resistant agriculture)
- Community-based adaptation (early warning systems, social awareness campaigns)

4. MITIGATION MEASURES:

- Greenhouse gas emission reduction strategies for different development sectors
- Sustainable land use planning for GHG emission reduction
- Low-carbon development pathways
- New and emerging trends in Carbon sequestration.

5. EMERGENCY PREPAREDNESS:

- Emergency Operation Centers (EOCs) at State, District and City levels
- Disaster management SOPs and Protocols
- Early warning systems and communication strategies
- Community-based preparedness initiatives

6. DISASTER RESPONSE AND RECOVERY:

- Rescue, Relief and Recovery
- Re-construction and Re-habilitation
- Build back better for Disaster resilience infrastructure

7. POLICY AND GOVERNANCE:

- Integrating climate/disaster resilience into development plans
- Stakeholder engagement and capacity building
- International frameworks and agreements (e.g., Sendai Framework)