

Green Skill Programs (2025-2026)

(Under CSIR- Integrated Skill Initiative Phase III)



Organized by

CSIR –NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE (NEERI)
(DSIR, Ministry of Science and Technology, Govt. of India)
Nehru Marg, Nagpur-440020 (Maharashtra). INDIA
Website: www.neeri.res.in
Ph.: 0712- 2249885 Ext. 645 / 344
Email: neerisdc@gmail.com

OBJECTIVES

In order to preserve the biodiversity and the productivity of the land, control measures are to be taken in achieving sustainable land use and management systems, to balance productivity and environmental protection. CSIR-NEERI has vast experience in the field of soil quality assessment and successfully implemented soil remediation technologies for various private, public and state / central government agencies in different parts of the country. The major objective of the training program is to impart training on soil quality assessment and management of degraded land practices to make participants well acquainted with the interpretation of data related to soil quality and land management practices to be adopted for the restoration of biodiversity.

COURSE CONTENTS

- Categories of Indian Soils.
- Collection, Preservation and Preparation of Soil Samples for Laboratory Analysis.
- Soil Quality Parameters: Physical, Chemical and Biological.
- QA/QC Procedure in Analysis, Accuracy, Precision and Concepts of Uncertainty Measurement.
- Regulations for industrial land management
- Land Management - I (Case Study on Ecological Restoration of Mine Spoil Dumps)

VENUE: CSIR-NEERI, Nagpur

MODE OF TRAINING: Classroom lectures/ demonstration/ interaction. The lecture material shall be provided to the participants after the completion of the program.

REGISTRATION

- Interested candidates (Educational qualification: Graduate in Science / Engineering & above) can register through weblink: <https://forms.gle/pqKd9jPAwzuJa3V5A>
- Registration fees: Rs. 2000/-
- Closing Date: August 31, 2025
- Seats are limited (20 seats) and registration will be confirmed on first come first get basis by email. Registration weblink will be closed after receiving requisite registrations.
- Accommodation (twin sharing basis) at CSIR-NEERI Guest House can be arranged for registered participants only on payment basis, if available

CERTIFICATE OF PARTICIPATION: Certificate of Participation will be issued on successful completion.

DIRECTOR	GREEN SKILLS COORDINATOR	COURSE COORDINATOR
Dr. S. Venkata Mohan Director CSIR-NEERI	Dr. Harshvardhan Singh Chief Scientist & In-Charge Skill Development Centre (SDC)	Dr. Sanjeev Kumar Singh Senior Principal Scientist & In-Charge, Sophisticated Environmental Analytical Facility (SEAF)

OBJECTIVES

A Water Safety Plan (WSP) is an improved risk management tool designed to ensure the delivery of safe drinking water. It identifies hazards, means to control them, means and actions to identify loss of control and its restoration. It comprises system assessment and design, operational monitoring and management plans (including documentation and communication). The program aims at providing awareness related to prevention of drinking water contamination from catchment to consumer by identifying risk and hazards associated with drinking water supply with suitable control measures. This training module aims at providing the participants with following objectives:

- Explain that a WSP is a source to point-of-use risk management approach that exists within a wider framework for safe drinking-water.
- Explain why the traditional end-product monitoring approaches are insufficient for ensuring drinking water safety.
- How to identify risks and hazards associated with drinking water supply
- How to suggest suitable control measures to minimise the risks and hazards in drinking water supply

COURSE CONTENTS

- Water quality: Issues and options for safe drinking water supply
- Drinking water quality monitoring
- Water supply system and associated risks and hazards
- Identification of hazards and hazardous events and assess the risks in water supply system.
- Determination and validation the control measures, reassessment and prioritization of the risk.

VENUE: CSIR-NEERI, Nagpur

MODE OF TRAINING: Classroom lectures/ demonstration/ interaction. The lecture material shall be provided to the participants after the completion of the program.

REGISTRATION

- Interested candidates (Educational qualification: Graduate in Science / Engineering & above) can register through weblink: <https://forms.gle/2WRBWhGFCYcyy8dCA>
- Registration fees: Rs. 2000/-
- Closing Date: September 14, 2025
- Seats are limited (20 seats) and registration will be confirmed on first come first get basis by email. Registration weblink will be closed after receiving requisite registrations.
- Accommodation (twin sharing basis) at CSIR-NEERI Guest House can be arranged for registered participants only on payment basis, if available

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Dr. S. Venkata Mohan Director CSIR-NEERI	Dr. Harshvardhan Singh Chief Scientist & In-Charge, Skill Development Centre (SDC)	Dr. G.K.Khadse Chief Scientist, Water Resources (WR)



OBJECTIVES

"Know Your Environment" is a unique green skill program for all who need a quick and clear way to understand the environment. Environment is one of the essential basic requirements for living beings that includes soil, water, land, biodiversity, etc. A clean environment is essential for the healthy survival of humans and other biological species.

The program will cover basic understanding of the various aspects of your surroundings, including the natural world, the built environment, and social contexts. It encompasses knowledge about the physical, chemical, and biological factors that influence living organisms and ecosystems. This understanding is crucial for making informed decisions, adopting sustainable practices, and contributing to a healthier planet. A healthy environment contributes to physical and mental wellbeing, and understanding your environment can help you create a more supportive and comfortable living space.

COURSE CONTENTS

- Fundamentals of Environment
- Components of Environment
- Environmental Quality Monitoring
- Awareness of natural resources and their importance for human survival & well-being
- Knowledge about challenges like pollution, deforestation, climate change, and the impact of human activities on the natural world.
- Policies and Laws towards environmental conservation & protection

VENUE: CSIR-NEERI, Nagpur

MODE OF TRAINING: Classroom lectures/ demonstration/ interaction. The lecture material shall be provided to the participants after the completion of the program.

REGISTRATION

- Interested candidates (Educational qualification: Graduate in Science / Engineering & above) can register through weblink: <https://forms.gle/pv4PgkmB8vuEBQNK6>
- Registration fees: Free
- Closing Date: October 06, 2025
- Seats are limited (20 seats) and registration will be confirmed on first come first get basis by email. Registration weblink will be closed after receiving requisite registrations.
- Accommodation (twin sharing basis) at CSIR-NEERI Guest House can be arranged for registered participants only on payment basis, if available

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**OBJECTIVES**

Measurement of environmental pollutants is a very important aspect of understanding the environmental contamination baseline and predicts its impacts for effective environmental decision making and implementing mitigation plans. Both organic and inorganic environmental pollutants are integral part of monitoring programs because of their significant long term and toxic effects on human health and the environment. It is important to identify and quantify these environmental pollutants with a high sensitivity and accuracy as they could be present in the environment at ppb and sub ppb levels. Advances in analytical techniques, has made it possible to measure even the trace level contaminants present in environmental matrices like soil/sediment, water and air, after suitable sample processing.

The objective of this training program is to impart basics and advanced knowledge on analytical instrumentation techniques for analysis of environmental contaminants including trace level analysis like pesticides, using sophisticated instrumentation. An over view of occurrence and fate of pollutants in environment, besides sample collection and processing techniques for environmental analysis.

COURSE CONTENTS

- Basic concepts of analytical techniques used for environmental contaminants.
- Sample Collection and Preparation Techniques for determination of Organic and Inorganic Contaminants in environmental samples
- Analytical application of Gas Chromatography, Gas Chromatography-Mass Spectrometry etc. for monitoring of organic contaminants.
- Analytical application on instrumentation techniques for analysis of organic and inorganic contaminants like TOC and CHNS Analyzer, Atomic Absorption Spectrometry, Inductively Coupled Plasma (ICP-OES/ICP-MS), FTIR and Ion Chromatograph.
- QA/QC of equipment's and analytical activities as per ISO/IEC 17025:2017.

VENUE: CSIR-NEERI, Nagpur

MODE OF TRAINING: Classroom lectures/ demonstration/ interaction. The lecture material shall be provided to the participants after the completion of the program.

REGISTRATION

- Interested candidates (Educational qualification: Graduate in Science / Engineering & above) can register through weblink: <https://forms.gle/czkwZxJ2KCndDuCv5>
- Registration fees: Rs. 2000/-
- Closing Date: October 18, 2025
- Seats are limited (20 seats) and registration will be confirmed on first come first get basis by email. Registration weblink will be closed after receiving requisite registrations.
- Accommodation (twin sharing basis) at CSIR-NEERI Guest House can be arranged for registered participants only on payment basis, if available

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OBJECTIVES

Water quality testing involves analysing water samples to determine the presence and concentration of various physical, chemical, and biological parameters. These tests help assess the suitability of water for specific uses, such as drinking, irrigation, or industrial processes, and ensure it meets safety standards.

This training module aims at providing the participants with following objectives:

- To produce valid data & information on the quality of water, for appropriate treatment and management
- To ensure meaningful water quality assessment
- To have confidence in results, based on standardized procedures for all components of water quality monitoring
- Validation of water quality data

COURSE CONTENTS

- Introduction to drinking water quality
- Important water quality parameters and their testing methods
- Hands on training for testing of water quality parameters
- Instrumentation techniques for water quality testing
- Water quality data management
- Ensuring Quality assurance and quality control (QAQC) in water quality data

VENUE: CSIR-NEERI, Nagpur

MODE OF TRAINING: Classroom lectures/ demonstration/ interaction. The lecture material shall be provided to the participants after the completion of the program.

REGISTRATION

- Interested candidates (Educational qualification: Graduate in Science / Engineering & above) can register through weblink: <https://forms.gle/u2kA1RLcDKcVEuQy8>
- Registration fees: Rs. 3000/-
- Closing Date: December 07, 2025
- Seats are limited (20 seats) and registration will be confirmed on first come first get basis by email. Registration weblink will be closed after receiving requisite registrations.
- Accommodation (twin sharing basis) at CSIR-NEERI Guest House can be arranged for registered participants only on payment basis, if available
- For query/assistance, contact on mobile no 9860248073, 9503138008

CERTIFICATE OF PARTICIPATION: Certificate of Participation will be issued on successful completion.

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OBJECTIVES

Rapid urbanization and industrialization contribute to the growing emissions of Volatile Organic Compounds (VOCs) in air. Emission of VOCs can be from a wide range of outdoor and indoor sources. VOCs are a group of carbon-based chemicals that easily evaporate at room temperature. VOCs have been identified as highly toxic in nature and may have both short/ long term effect on human health as well as on environment. Identifying these VOCs becomes an important task in the process of monitoring and their control. This training programme aims to provide an insight on VOCs, sampling, analysis and control measures.

COURSE CONTENTS

- Introduction to VOCs as Air Pollutant
- Monitoring of VOCs (Instrumental training for selected VOCs)
- Analysis and Detection of VOCs (using Gas Chromatography)
- An overview on VOCs mapping and modelling
- Technology based control measures for VOCs

VENUE: CSIR-NEERI, Hyderabad Zonal Centre

MODE OF TRAINING: Classroom lectures/ demonstration/ interaction. The lecture material shall be provided to the participants after the completion of the program.

REGISTRATION

- Interested candidates (Educational qualification: Graduate in Science / Engineering & above) can register through weblink: <https://forms.gle/KoVzvyiARW6ddXNc8>
- Registration fees: Rs. 2000/-
- Closing Date: December 29, 2025
- Seats are limited (20 seats) and registration will be confirmed on first come first get basis by email. Registration weblink will be closed after receiving requisite registrations.
- Accommodation (twin sharing basis) at CSIR Guest House can be arranged for registered participants only on payment basis, if available
- For query/assistance, contact on mobile no 9860248073, 9503138008

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DIRECTOR	GREEN SKILLS COORDINATOR	COURSE COORDINATOR
Dr. S. Venkata Mohan Director CSIR-NEERI	Dr. Harshvardhan Singh Chief Scientist & In-Charge, Skill Development Centre (SDC)	Dr. Basha Shaik Chief Scientist & Chair Hyderabad Zonal Centre (HZC) Dr. TVBPS Ramakrishna Senior Principal Scientist, HZC Dr. Satinder Kaur Senior Technical Officer (2), HZC

OBJECTIVES

Impact Assessment is broadly intended to provide perspective, insights and knowledge required for effective and efficient management of environment. The specific aim of the training program is to enhance the capacities of the participants in EIA. The main objectives are:

- Exposure to all aspects of EIA
- EIA process-screening, scoping, data collection to impact assessment, role of public consultation etc.
- Specific reference to the environmental and social impacts of the industrial and developmental projects
- Reviewing EIA reports and identifying its strengths and weaknesses
- How to enhance ability regarding playing active role in post-EIA monitoring
- New possibilities for EIA/EMP using appropriate S&T Tools
- How to delineate pragmatic Environmental Management Plans

COURSE CONTENTS

- Environmental Impact Assessment (EIA): Introduction & NABET Requirements
- Baseline environmental quality of EIA studies
- Ambient Air Quality Monitoring, Analysis and Reporting
- Air Pollution Modelling, Meteorology, Dispersion of Stack and Fugitive Emissions
- Water Quality – Monitoring, Analysis and Reporting & Water Management
- Socio-Economic Aspects
- Noise and Vibration – Monitoring, Modelling and Management Plans
- Soil Quality Parameter, Soil Erosion and Soil Conservation Plans
- Solid & Hazardous Wastes – Characterization, Classification, Transport – Guidelines and Regulations
- Bio-diversity studies for Terrestrial and Aquatic Ecosystems – Forest and Wildlife Clearance
- Advance tools of EIA
- Environmental Management Plans for different Sectors

VENUE: CSIR-NEERI, Nagpur

MODE OF TRAINING: Classroom lectures/ demonstration/ interaction. The lecture material shall be provided to the participants after the completion of the program.

REGISTRATION

- Interested candidates (Educational qualification: Graduate in Science / Engineering & above) can register through weblink: <https://forms.gle/kAUb3ACpKamShR6p7>
- Registration fees: Rs. 3000/-
- Closing Date: January 10, 2026
- Seats are limited (20 seats) and registration will be confirmed on first come first get basis by email. Registration weblink will be closed after receiving requisite registrations.
- Accommodation (twin sharing basis) at CSIR-NEERI Guest House can be arranged for registered participants only on payment basis, if available

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OBJECTIVES

Green Skill program on environmental management equips individuals with the knowledge and skills to address environmental challenges and promote sustainability. The objectives of environmental management are multifaceted, aiming to protect and enhance the environment while ensuring human well-being. The goal of environmental management is to balance human activities with the environment through regulatory compliance, conservation measures, technological innovation & public awareness campaigns to create a more sustainable future for present & future generations. Ultimately, environmental management strives for a balance between human needs and the health of the planet

COURSE CONTENTS

- Basics of Environment
- Monitoring and Assessment of Environment
- forms of pollution and developing methods for prevention, control, and remediation
- Fundamentals of Environmental Impact Assessment
- Environmental Management Plan (EMP)
- Phases of EMP
- EMPs for different development sectors
- Case Studies
- Environmental Laws and Regulations

VENUE: CSIR-NEERI, Nagpur

MODE OF TRAINING: Classroom lectures/ demonstration/ interaction. The lecture material shall be provided to the participants after the completion of the program.

REGISTRATION

- Interested candidates (Educational qualification: Graduate in Science / Engineering & above) can register through weblink: <https://forms.gle/UocgTwaGyEFjaZPK6>
- Registration fees: Free
- Closing Date: January 18, 2026
- Seats are limited (20 seats) and registration will be confirmed on first come first get basis by email. Registration weblink will be closed after receiving requisite registrations.
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