

Capacity Building Training on Nuclear Sector by NPCIL to ECs and FAEs of CSIR-NEERI for obtaining QCI-NABET Accreditation

Online Lectures: 19th- 29th August 2025
(Afternoon Session)



Sponsor: Nuclear Power Corporation of India (NPCIL), Mumbai



**CSIR – National Environmental Engineering
Research Institute (CSIR NEERI)
Nagpur - 440020**

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Day 1, 19th August 2025, 14.30 onwards for 3-4 hours

Lecture	Title	Faculty
L-1	Brief Introduction to Indian Nuclear Power Programme	Dr. Jitendra Singh, AD, Directorate (HS&E)
L-3(i)	Basic Radiation Protection, Radiation Monitoring Systems, Radioactive releases, Radiation Dosimetry	Shri. M. M. L. N. Rao, ACE (ESG)

List of Lectures that will be delivered as part of the training program

Lecture	Title
L-1	Brief Introduction to Indian Nuclear Power Programme
L-2	Design features of Indian NPPs
L-3(i)	Basic Radiation Protection, Radiation Monitoring Systems, Radioactive releases, Radiation Dosimetry
L-3(ii)	Radiation Biology
L-4	Radioactive Waste Management
L-5	Reactor Safety Analysis
L-6	Accident Management
L-7	Epidemiological/ Health Studies for NPPs
L-8	Emergency Response Plan for Indian NPPs
L-9(i)	Methodology for Radiological Impact Assessment (RIA) for NPPs
L-9(ii)	Dispersion models
L-10	Radiological Environmental Monitoring for NPPs