

2. Training Programme on O&M of Thermal Power Plants

The program covers the basics of Operation and Maintenance (O&M) of Thermal power plants with a comprehensive overview of key concepts for efficient Operation and deep insight in the best Maintenance practices for Thermal power Plant. Participants will gain in-depth knowledge of plant components, including boilers, turbines, and generators, alongside a knowledge of optimal practices for operation, maintenance, and troubleshooting. The program shall also emphasize on performance optimization along with the safety aspect for Thermal Power Plants through interactive sessions and study visit.

Programme Title		Operation & Maintenance of Thermal Power Plant
Duration		5 days
Venue		NSB, Noida
Day	Time	Topic
Day 1	Forenoon (FN) 3 hours	<ul style="list-style-type: none"> Introduction to Thermal power station: Major Systems of a thermal Power Plant (Boiler & Auxiliaries, Turbine & Auxiliaries, Balance of Plant systems, Electrical Systems & Switchyard)
	Afternoon (AN) 3 hours	<ul style="list-style-type: none"> Operation Practices of Main Plant (Boiler, Turbine and Auxiliaries) Operation Practices of Balance of Plant Systems
Day 2	FN	<ul style="list-style-type: none"> Operation Practices for Electrical systems and Switchyard Operation Practices at Reservoir area.
	AN	<ul style="list-style-type: none"> Mechanical Systems Maintenance Practices Electrical Maintenance Practices Control & Instrumentation Systems Maintenance Practices Civil Maintenance Practices Over Hauling Schedule and major activities carried out in overhauling
Day 3	FN	<ul style="list-style-type: none"> Maintenance Planning. Types of Maintenance Strategies for Thermal Power Plant: Predictive Maintenance, Preventive Maintenance and Breakdown Maintenance. Spare Part Planning
	AN	<ul style="list-style-type: none"> Power Plant Protections (Boiler and Turbine) Emergency Handling and trouble Shooting in Thermal Power Plants Case studies for common emergencies in thermal Power Plants
Day 4	FN	<ul style="list-style-type: none"> Visit to Thermal Power Plant
	AN	<ul style="list-style-type: none"> Introduction to Power Plant Simulator at NTPC PMI.

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Day 5	FN	<ul style="list-style-type: none"> • Safety aspects in Thermal Power Plants. • Safety practices during routine maintenance, Permit to Work Systems. Safety Peptalks, safety checklists.
	AN	<ul style="list-style-type: none"> • Aspects of Energy Efficiency Management in Thermal Power plant & Environmental norms Challenges. • Presentation by Participants about learning • Feedback, Valedictory & Felicitation Session