

Training Syllabus

Paket A : Steam Boiler

Day 1	
Hours	Lesson Plan
08.00-09.00	Introduction
09.00-11.00	Economizer & Steam Drums
11.00-12.00	Circulation of Boiler Water
12.00-13.00	Lunch Break
13.00-14.00	Saturation Rate of Change
14.00-17.00	Superheaters & Reheater
Day 2	
Hours	Lesson Plan
08.00-10.00	Attemperators
10.00-12.00	Boiler Safety Valves
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise

Paket B : Boiler Fuel, Air, & Flue Gas

Day 1	
Hours	Lesson Plan
08.00-09.30	Feedwater System Purpose
09.30-11.00	Combustion Chemistry & Boiler Air Flow
11.00-12.30	Air Preheaters & Regenerative Air Heaters
12.00-13.00	Lunch Break
13.00-14.30	Boiler Fuel Preparation & Delivery
14.00-17.00	Boiler Controls
Day 2	
Hours	Lesson Plan
08.00-12.00	Simulator exercise
12.00-13.00	Lunch Break
13.00-17.00	Simulator exercise

Paket C : Turbine & Auxiliaries

Day 1	
Hours	Lesson Plan
08.00-09.00	Turbine Heat Engine
09.00-11.00	Turbine Steam Admission & Control Valves
11.00-12.00	Turbine Supervisory Instrumentation
12.00-13.00	Lunch Break
13.00-14.00	Turbine Lube & Hydraulic Oil Systems
14.00-17.00	Steam Seal Systems & Minimizing Turbine Stress
Day 2	
Hours	Lesson Plan
08.00-12.00	Simulator Exercise
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise

Paket D : Generator & Auxiliaries

Day 1	
Hours	Lesson Plan
08.00-09.00	The Generator
09.00-11.00	General Electric Excitation System
11.00-12.00	Westinghouse Excitation System
12.00-13.00	Lunch Break
13.00-14.00	General Electric & Westinghouse Seal Oil Systems
14.00-17.00	Generator Axial Cooling & Monitoring Systems
Day 2	
Hours	Lesson Plan
08.00-12.00	Simulator Exercise
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise

Paket E : Integrated Start-up

Day 1	
Hours	Lesson Plan
08.00-10.00	Simulator Introduction
10.00-12.00	Energy In - Energy Out
12.00-13.00	Lunch Break
13.00-15.00	Circulating & Cooling Water
15.00-17.00	Condensate System
Day 2	
Hours	Lesson Plan
08.00-10.00	Feedwater System
10.00-12.00	Steam Boiler
12.00-13.00	Lunch Break
13.00-15.00	Boiler Fuel, Air, and Flue Gas
15.00-17.00	Turbine & Auxiliaries
Day 3	
Hours	Lesson Plan
08.00-10.00	Generator & Auxiliaries
10.00-12.00	Cold Start Procedure - Introduction
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise - Cold Startup
Day 4	
Hours	Lesson Plan
08.00-12.00	Simulator Exercise - Cold Startup
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise - Cold Startup
Day 5	
Hours	Lesson Plan
08.00-12.00	Simulator Exercise - Cold Startup
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise - Cold Startup

Paket F : Integrated Shutdown

Day 1	
Hours	Lesson Plan
08.00-10.00	Introduction
10.00-12.00	Current System Shutdown Objectives
12.00-13.00	Lunch Break
13.00-15.00	Forced Cooling Of the Boiler
15.00-17.00	Forced Cooling Of the Turbine
Day 2	
Hours	Lesson Plan
08.00-12.00	Shutting down with a large Waterwall Tube Leak
12.00-13.00	Lunch Break
13.00-17.00	Simulator exercise - Normal Shutdown
Day 3	
Hours	Lesson Plan
08.00-12.00	Simulator exercise - Normal Shutdown
12.00-13.00	Lunch Break
13.00-17.00	Simulator exercise - Normal Shutdown

Paket G : Complete Power Plant Training Package

Day 1	
Hours	Lesson Plan
08.00-10.00	Simulator Introduction
10.00-12.00	Energy In - Energy Out
12.00-13.00	Lunch Break
13.00-15.00	Circulating & Cooling Water
15.00-17.00	Condensate System
Day 2	
Hours	Lesson Plan
08.00-10.00	Feedwater System
10.00-12.00	Steam Boiler
12.00-13.00	Lunch Break
13.00-15.00	Boiler Fuel, Air, and Flue Gas
15.00-17.00	Turbine & Auxiliaries
Day 3	
Hours	Lesson Plan
08.00-10.00	Generator & Auxiliaries
10.00-12.00	Cold Start Procedure - Introduction Theory
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise - Cold Startup
Day 4	
Hours	Lesson Plan
08.00-12.00	Simulator Exercise - Cold Startup
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise - Cold Startup
Day 5	
Hours	Lesson Plan
08.00-12.00	Simulator Exercise - Cold Startup
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise - Cold Startup
Day 6	
Hours	Lesson Plan
08.00-12.00	Integrated Shutdown - Introduction Theory
12.00-13.00	Lunch Break
13.00-17.00	Simulator exercise - Normal Shutdown
Day 7	
Hours	Lesson Plan
08.00-12.00	Simulator exercise - Normal Shutdown
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise - Normal Shutdown
Day 8	
Hours	Lesson Plan
08.00-12.00	Simulator exercise - Normal Shutdown
12.00-13.00	Lunch Break
13.00-17.00	Simulator Exercise - Normal Shutdown