

## TRAINING SESSION PLAN

**TITLE** : **STEAM BOILER OPERATOR**  
**TIME** : **08:00AM to 17:00PM**

At the end of the 5 days session, participants will be able to understand the type of boilers, important components, function, safety features, detect on abnormality of boilers and answering exam papers on the boiler's issues.

DAY 1	
TIME	TOPIC
0800 – 1000 (2 Hours)	Introduction to Boiler <ul style="list-style-type: none"><li>● Definition</li><li>● Purpose</li><li>● Boiler Classifications</li><li>● Principle of Fire Tube and Water Tube Boilers</li></ul>
1000 – 1300 (3 Hours)	Laws Related to Steam Boilers <ul style="list-style-type: none"><li>● An overview of the Occupational Safety and Health Act (1994) and its regulations</li><li>● Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024</li><li>● Schedule 8 – Essential Fittings</li></ul>
1300 – 1400 (1 Hour)	Lunch Break
1400 – 1700 (3 Hours)	Steam Boiler Failures <ul style="list-style-type: none"><li>● Types of Failure</li><li>● Cause of Failure</li><li>● Preventions of Failure</li></ul>

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DAY 2	
TIME	TOPIC
0800 – 1300 (5 Hours)	Steam Boiler Operations and Trouble-shootings <ul style="list-style-type: none"><li>• Operating Logs (Class)</li><li>• Boiler Operations (Class)</li><li>• Boiler Abnormality, Emergencies and Safety (Class)</li></ul>
1300 – 1400 (1 Hour)	Lunch Break
1400 – 1700 ( 3 Hours)	Steam Boiler Operations and Trouble-shootings <ul style="list-style-type: none"><li>• Boiler Storage (Class)</li><li>• Comissioning activities</li></ul>

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DAY 3	
TIME	TOPIC
0800 – 1000 (2 Hours)	Boiler Water Treatment <ul style="list-style-type: none"><li>● Introduction to Boiler Water Treatments</li><li>● Water Treatment Concerns</li></ul>
1000 – 1200 (2 Hours)	Combustion Fundamentals; Combustion Theory <ul style="list-style-type: none"><li>● Perfect Combustion</li><li>● Complete Combustion (Excess air control), and</li><li>● Incomplete Combustion</li></ul>
1200 – 1300 (1 Hour)	Lunch Break
1300 – 1500 ( 2 Hours)	Steam Turbines Fundamentals <ul style="list-style-type: none"><li>● Introduction of Steam Turbines</li></ul>
1500 – 1700 (2 Hours)	Steam Boiler Maintenance <ul style="list-style-type: none"><li>● Introduction to Boiler Maintenance</li><li>● Preventive Maintenance</li></ul>

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DAY 4	
TIME	TOPIC
0800 – 1000 (2 Hours)	<ul style="list-style-type: none"><li>• Pre-Assessment (1 hour)</li><li>• Quiz (1 hour)</li></ul>
1000 – 1300 (3 Hours)	Practical <ul style="list-style-type: none"><li>• Site Visit</li><li>• Demonstration switchboard startup and shutdown</li><li>• Check Water Level Gauge</li></ul>
1300 – 1400 (1 Hour)	Lunch Break
1400 – 1700 (3 Hours)	Practical <ul style="list-style-type: none"><li>• Test High-Low Water Alarm</li><li>• Blow Down</li><li>• Safety Valve Setting</li><li>• Discussion on preparation for Interview</li></ul>

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DAY 5	
TIME	TOPIC
0800 – 1300 ( 5 hours)	Assessment Mock Interview <ul style="list-style-type: none"><li>• Group 1</li><li>• Group 2</li><li>• Group 3</li><li>• Group 4</li></ul>
1300 – 1400 (1 Hour)	Lunch Break
1400 – 1700 (3 Hours)	Assessment Mock Interview (Continue) <ul style="list-style-type: none"><li>• Group 5</li><li>• Group 6</li><li>• Group 7</li><li>• Group 8</li></ul>

CONTACT HOURS: 24 HOURS  
PRACTICAL: 6 HOURS  
ASSESSMENT: 1 DAY