Boiler Operation, Maintenance & Safety

Schedule Dates:

Start Date	End Date	Place
29 / 01 / 2024	02 / 02 / 2024	Vienna, Austria

Program Objective:

✓ This program has been designed to provide participants with comprehensive knowledge of boiler operation, inspection, repair and maintenance from the Codes & Standards and Legislation in Malaysia (such as the Factories and Machinery Act 139) and the operation and maintenance of power boilers and heating boilers are covered in details

Program Outlines

Day One

Boiler Types and Configurations
- Firetube Boilers
- Watertube Boilers
- Cast Iron Boilers
- High Pressure Boilers
- Low Pressure Boilers
- Steam Boilers
- Hydronic Boilers

Day Two

Fundamentals of Combustion and Heat transfer
- Theory of Combustion
- Thermodynamics
- Steam Tables

Burner Operation and Control
- Gas Train
- Oil Train
- Standard Burner
- High Turndown Burner
- Burner Controls

Day Three

Boiler Operation and Testing / Standard Operating Procedures

- Start-Up and Shut-Down

- Normal Operation

- Boiler Blowdowns

- Water Quality Analysis and Treatment

- Valve Types

- Safety Valves

- Low Water Cutoff Controls

Boiler Room Safety

- Boiler Accidents

- Cause and Effect

Day Four

Cause and Effect Case Study

- Safety Valves

- Confined Spaces

- Lockout / Tagout

Operation Standards

- ASME Codes

- NFPA Codes

- NBIC Code

Day Five

Controls and Safety Devices for Automatically Fired Boilers

- Water Level Control
- Temperature Control
- Pressure Control
- Fuel Trains

Inspection and Maintenance of Commercial and Industrial Boilers

- Fireside
- Waterside
- Burner
- Auxiliary Equipment

Training Methodology:

- Slide presentations
- Interactive discussion
- Simulations and Gamification
- Online Video material

Cost Quotation in Kuwaiti Dinars

The total cost includes:

- Instructor(s) expenses
- Training materials
- Certification

Total Cost: 1500 KD per Participant
(One Thousand Five Hundred Kuwaiti Dinar)