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# STEAM Boiler Operator Course

(Batch 20) 08 – 12 June 2026

## TRAINERS

- Mohd Fauzi Bin Mat Rasid
- Mohamad Hiswandy bin Ishak
- Ir Ts Samsulhadi bin Mohammad Shabani
- Ir Zainee bin Mohamad
- Ir Ludin Embong



**Course Fees:**  
**RM5,184.00** – Including 8% SST

Online Transfer/HRDC Claimable

Register today and secure your spot for this essential training course in Steam Boiler Operator



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Matrix Quantum Sdn Bhd  
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JKKP IS 127/682/20-3(2)

Any Inquiry please contact  
Mr. Hazri : 019 217 3382

**Join us for an intensive 5-days course on Steam Boiler Operator Grade 1 & 2 certification.**

**Title** : **STEAM BOILER OPERATOR (GRADE 1 & 2)**  
**Time** : 09:00 AM – 18.00 PM

**Course Summary** : 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
9.00am – 11.00am (2 hours)	<b>Topic 1: Introduction to Boiler</b> <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>
11.00am – 14.00pm (3 hours)	<b>Topic 2: Laws Related to Steam Boiler</b> <ul style="list-style-type: none"> <li>• An overview of Occupational Safety and Health Act (1994)</li> <li>• Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024</li> <li>• Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024 Schedule 8 – Essential Fittings</li> </ul>
14.00pm – 15.00pm (1 hour)	<b>Lunch break</b>
15.00pm – 18.00pm (3 hours)	<b>Topic 3: Steam Boiler Operations and Troubleshooting</b> <ul style="list-style-type: none"> <li>• Operating Logs</li> <li>• Boiler Operations</li> <li>• Boiler Abnormality, Emergencies and Safety</li> <li>• Boiler Storage</li> <li>• Commissioning Activities;</li> </ul>

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DAY 2	
TIME	TOPIC
9.00am – 14.00pm (5 hours)	<p><b>Continue</b>  <b>Topic 3: Steam Boiler Operation &amp; Trouble Shooting</b></p> <ul style="list-style-type: none"> <li>• Boiler Operating Log</li> <li>• Boiler Operation</li> <li>• Boiler Abnormalities, Emergency and Safety</li> <li>• Boiler Storage</li> <li>• Commissioning Activities</li> </ul>
14.00pm – 15.00pm (1 hour)	<b>Lunch break</b>
15.00pm – 17.00pm (2 hours)	<p><b>Topic 4: Boiler Water Treatment</b></p> <ul style="list-style-type: none"> <li>• Introduction to Boiler Water Treatments</li> <li>• Water Treatment Concerns</li> </ul>
17.00pm – 18.00pm (1 hour)	<p><b>Topic 5: Combustion Fundamentals</b></p> <p>Combustion Theory;</p> <ul style="list-style-type: none"> <li>• Perfect Combustion,</li> <li>• Complete Combustion (Excess air control), and</li> <li>• Incomplete Combustion</li> </ul>

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<b>DAY 3</b>	
<b>TIME</b>	<b>TOPIC</b>
9.00am – 11.00am (1 hour)	<b>Continue</b> <b>Topic 5: Combustion Fundamentals</b>  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>
11.00am – 13.00pm (2 hours)	<b>Topic 6: Steam Turbines Fundamentals</b> <ul style="list-style-type: none"><li>• Introduction to Steam Turbines</li><li>• Steam Turbines</li></ul>
13.00pm – 14.00pm (1 hour)	<b>Lunch break</b>
14.00pm – 15.00pm (2 hours)	<b>Topic 7: Steam Boiler Maintenance</b> <ul style="list-style-type: none"><li>• Introduction to Boiler Maintenance</li><li>• Preventive Maintenance</li></ul>
15.00pm – 18.00pm (3 hours)	<b>Topic 8: Steam Boiler Failures</b> <ul style="list-style-type: none"><li>• Types of Failures</li><li>• Cause of Failure</li><li>• Prevention of Failure</li></ul>

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<b>DAY 4</b>	
<b>TIME</b>	<b>TOPIC</b>
9.00am – 18.00pm (1 day)	<ul style="list-style-type: none"><li>• Assessment &amp; Mock-up Interview</li></ul>

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<b>DAY 5</b>	
<b>TIME</b>	<b>TOPIC</b>
9.00am – 12.00pm (3 hours)	<ul style="list-style-type: none"><li>• Practical</li></ul>
12.00pm – 13.00pm (1 hour)	<b>Lunch break</b>
13.00pm – 16.00pm (3 hours)	<ul style="list-style-type: none"><li>• Continue Practical</li></ul>
16.00pm	- End -

### **Contact Hours**

Formal Class – 24 hours  
Practical – 6 hours  
Assessment – 1 day