MATRIX QUANTUM

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STEAM Boiler Operator Course

(Batch 25) 16 – 20 Nov 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

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

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Lot 180, Jalan 1A, Kampung Subang Baru, 40150 Shah Alam, Selangor. Selangor.

03-5892 6806

APPROVED TRAINING PROVIDER BY DOSH
Matrix Quantum Sdn Bhd
Approved Training Centre by DOSH :
JKKP IS 127/682/20-3(2)

Any Inquiry please contact
Mr. Hazri : 019 217 3382

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)	**Topic 1: Introduction to Boiler** • Definition • Purpose • Boiler Classifications • Principle of Fire Tube and Water Tube Boilers;
11.00am – 14.00pm (3 hours)	**Topic 2: Laws Related to Steam Boiler** • An overview of Occupational Safety and Health Act (1994) • Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024 • Occupational Safety and Health (Plant Requiring Certificate of Fitness) Regulations 2024 Schedule 8 – Essential Fittings
14.00pm – 15.00pm (1 hour)	**Lunch break**
15.00pm – 18.00pm (3 hours)	**Topic 3: Steam Boiler Operations and Trouble-shootings** • Operating Logs • Boiler Operations • Boiler Abnormality, Emergencies and Safety • Boiler Storage • Commissioning Activities;

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DAY 2	
TIME	**TOPIC**
9.00am – 14.00pm (5 hours)	**Continue** **Topic 3: Steam Boiler Operation & Trouble Shooting** • Boiler Operating Log • Boiler Operation • Boiler Abnormalities, Emergency and Safety • Boiler Storage • Commissioning Activities
14.00pm – 15.00pm (1 hour)	**Lunch break**
15.00pm – 17.00pm (2 hours)	**Topic 4: Boiler Water Treatment** • Introduction to Boiler Water Treatments • Water Treatment Concerns
17.00pm – 18.00pm (1 hour)	**Topic 5: Combustion Fundamentals** Combustion Theory; • Perfect Combustion, • Complete Combustion (Excess air control), and • Incomplete Combustion

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DAY 3	
TIME	**TOPIC**
9.00am – 11.00am (1 hour)	**Continue** **Topic 5: Combustion Fundamentals** Combustion Theory; • Perfect Combustion, • Complete Combustion (Excess air control), and • Incomplete Combustion
11.00am – 13.00pm (2 hours)	**Topic 6: Steam Turbines Fundamentals** • Introduction to Steam Turbines • Steam Turbines
13.00pm – 14.00pm (1 hour)	**Lunch break**
14.00pm – 15.00pm (2 hours)	**Topic 7: Steam Boiler Maintenance** • Introduction to Boiler Maintenance • Preventive Maintenance
15.00pm – 18.00pm (3 hours)	**Topic 8: Steam Boiler Failures** • Types of Failures • Cause of Failure • Prevention of Failure

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DAY 4	
TIME	**TOPIC**
9.00am – 18.00pm (1 day)	● Assessment & Mock-up Interview

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DAY 5	
TIME	**TOPIC**
9.00am – 12.00pm (3 hours)	• Practical
12.00pm – 13.00pm (1 hour)	**Lunch break**
13.00pm – 16.00pm (3 hours)	• Continue Practical
16.00pm	- End -

Contact Hours

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