



Australian Government

Assessment Requirements for MARC023

Operate and maintain a boiler

Release: 1

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Modification History

Release 1. New unit of competency.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least one occasion and include:

- applying relevant health and safety/occupational health and safety (WHS/OHS) requirements and work practices
- applying precautions and required action to minimise, control or eliminate hazards that may exist when operating and monitoring boiler
- communicating effectively with others when operating and monitoring boiler performance
- completing documentation related to operating and monitoring boiler performance
- identifying and assessing boiler defects and deficiencies, and taking appropriate action to report, isolate, repair or replace identified defective equipment
- implementing contingency plans for emergencies
- initiating timely action in response to defects or damage
- providing required amount and level of detail in recordkeeping and reports
- reading and interpreting instructions, procedures, information and signs relevant to operating and monitoring boiler
- selecting and using required personal protective equipment that conforms to industry and WHS/OHS standards.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- applicable legislation relating to steam plant and nationally approved compliance codes and/or guidelines, and codes of practice
- basic principles of boiler operation, monitoring devices, ancillary systems
- boiler controls, instruments and indicators and their purpose, location and use
- methods for:
 - adjusting controls to maximise efficient and safe running
 - carrying out minor maintenance, cleaning and servicing boiler
 - managing safety incidents and hazardous situations that may arise when operating and monitoring boiler performance
 - operating and monitoring performance of boiler ancillary equipment
- personal protective equipment (PPE) required when operating boiler and procedures for its use
- principles for starting up, operating, monitoring and shutting down boiler
- procedures to be followed:
 - when there is an emergency when operating boiler
 - for confined space entry
- relevant licensing, legislative, regulatory or certification requirements
- relevant WHS/OHS and environmental procedures and regulations
- requirements for completing relevant documentation during and after operating and monitoring boiler performance
- typical faults that can occur with boiler and related action that should be taken to repair, isolate, replace, report and record faulty equipment.

Assessment Conditions

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

Assessment must satisfy the National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) standards.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations or where these are not available, in simulated workplace operational situations or an industry-approved marine operations site that replicates workplace conditions where operating and maintaining a boiler can be conducted.

Resources for assessment include access to:

- relevant documentation including workplace procedures, regulations, codes of practice and operation manuals
- tools, equipment and personal protective equipment currently used in industry to operate and maintain a boiler

Performance should be demonstrated consistently over time and in a suitable range of contexts.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>