



Australian Government

Assessment Requirements for PMBPROD210E Operate injection moulding equipment

Release: 1

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Modification History

Release 1. Unit code changed. Application changed. Elements and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMBPROD210 Operate injection moulding equipment.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- operate injection moulding equipment at least once, including monitoring of equipment using measured or indicated data and senses as required to meet work requirements.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the function of injection moulding equipment machine components and ancillary equipment, including:
 - fixed frame
 - injection unit
 - clamping unit
 - mould space
- principles of operation of injection moulding equipment
- types of injection moulding machines
- safety interlocks and their function during machine operation
- processing behaviour of polymers and the role of additives
- the criteria for overall process/equipment readiness for the process and equipment being used
- injection moulding production workflow sequences and materials demand
- typical quality standards at each stage of production
- key variables that may impact product quality and production output, including:
 - machine conditions
 - production rate, including cycle time, injection time and speed
- typical process and product problems, including early warning signs, possible causes and corrective actions
- organisational procedures relevant to the work environment or job role, including procedures for the emergency shutdown of equipment
- hazards that may arise in the job or work environment, and:
 - their possible causes

- potential consequences
- appropriate risk controls.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet – -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=932aacef-7947-4c80-acc6-593719fe4090>