



Australian Government

**Assessment Requirements for
PMBPROD261E Operate continuous
vulcanising 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 PMBPROD261 Operate continuous vulcanising 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 continuous vulcanising equipment at least once to meet job specifications.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the function of vulcanising equipment, machine components and guides, and ancillary equipment
- principles of operation of the equipment
- the role of retarders, fillers and extenders, processing aids and protective agents commonly used in rubber compounds
- the influence of the mechanical, hydraulic, pneumatic, electrical and electronic principles on vulcanising equipment operation and product curing
- the criteria for overall process/equipment readiness for the process or equipment being used
- the potential effects of variations in raw materials and equipment operation on quality of product
- impact of chemical reactions/mechanical processes on the state, form and condition of the vulcanised materials
- processing behaviour of polymers and the role of additives
- production workflow sequences and materials demand
- key variables that may affect product quality and production output, including:
 - speed
 - pressure
 - temperature
 - tension
 - clamp/press cycle
 - feed rate
 - output rate
 - product integrity and general conformance to specification/sample

- the role of heat and pressure in relation to providing strength, stiffness, resistance to deformation, fatigue and abrasion
- 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>