



Australian Government

Assessment Requirements for PMBTECH602E Develop a new die or tool

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 PMBTECH602 Develop a new die or tool.

Performance Evidence

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

- develop at least one new die or tool, including the production of tool assembly drawings, to meet specifications and customer and stakeholder requirements.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- impact of different polymer materials, their additives and the rheological, heat and other effects of processing on design of a new die or tool
- influence of die or tool design on the operability of the process and the properties of the product
- the impact of the melt viscosity on die size and design
- runner or sprue design
- impact of die size and shape on product
- mould flow analysis
- shear stress or strain rates (viscosity)
- die or tool trialling and testing procedures
- principles of operation of all relevant equipment and processes
- differentiating features of main processes, polymer materials and materials of construction of dies or tools
- effects of variations in process, conditions and die/tool on optimisation and final properties of the product
- organisation procedures relevant to the work environment/job role
- 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>