



Australian Government

Assessment Requirements for PMBTECH506E Analyse the design of products and tools for polymer injection moulding

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Modification History

Release 1. Unit code and title changed. Application changed. Elements and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to PMBTECH506 Analyse the design of product and tools.

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:

- analyse the design of products and tools for polymer injection moulding, at least once, to inform design features for new production.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- polymer materials, their additives and the rheological, heat and other effects of processing on the design of tools and components
- function and principles of operation of tool components and systems and ancillary equipment
- impact of product design on tooling design
- impact of tooling design on product
- impact of tool design and material properties on productivity
- types of tool designs required for different product types and their relative suitability
- the technical strengths and weaknesses of common processing and fabrication technologies and their relative suitability for classes of products
- the economic and market features of common processing and fabrication technologies and their impact on the selection of a technology for a product.

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>