



Australian Government

Assessment Requirements for MSMPMC401 Set up and tune a process

Release: 1

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Modification History

Release 1. New unit. Supersedes and is equivalent to PMC553000 Set up and tune a process

Performance Evidence

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

- set up and tuned a process on at least 1 occasion, including:
 - monitoring the following key variables to ensure product integrity and conformance to specification:
 - operating temperatures
 - pressure
 - material flow
 - discharge rates
 - material properties and chemical reactions
 - cycle time
 - output rate
 - recognising possible causes of the following problems:
 - wrong reading
 - instrument failure or malfunction
 - electrical or mechanical failure or malfunction
 - raw material variations or contamination
 - process abnormality
 - procedural error.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- equipment used in the process, including:
 - functions, limitations
 - start-up, operation and shutdown processes
 - impact of equipment settings on product quality and production output
- impact of variations in process conditions and raw materials on product quality and production output
- characteristics of materials being processed and their behaviour in relation to process conditions and stages of production

- quality requirements at each stage of production
- common adjustments in process variables and their impact on product quality and production output
- routine and non-routine problems that may arise, the range of possible causes and appropriate actions
- hierarchy of control
- work health and safety (WHS) requirements relevant to work outcome
- hazards relating to equipment and/or process:
 - their possible causes
 - potential consequences
 - risk control procedures.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies, as well as, using suitable facilities, equipment and resources.

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

Links

Companion Volume Implementation Guides are available at VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>