



Australian Government

Assessment Requirements for MEM07029 Perform routine sharpening and maintenance of production tools and cutters

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM07029B Perform routine sharpening/maintenance of production tools and cutters

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting tool and cutter sharpening and maintenance job instructions
- selecting and mounting appropriate grinding equipment and cutters to perform the sharpening task
- undertaking the sharpening and maintenance of tools and cutters checking that the finished work meets specifications
- reassembling the sharpened/maintained tooling and inspecting for conformance to specifications.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- sequence of tooling sharpening and maintenance operations to be performed
- function of coolant and dust extraction devices
- standard grinding wheel shapes
- range of abrasive materials used in grinding wheels
- effect of the following grinding wheel features on wheel selection and application:
 - grain size of abrasive particles
 - grade or strength of bond material
 - structure of grain spacing and dressing processes
- function and application of grinding accessories used for routine sharpening of production tools and cutters
- preparation requirements for tool maintenance
- requirements for checking:
 - dimensions and tolerances
 - geometry and tolerances

- surface finish specifications.

Assessment Conditions

- Assessors must:
 - have vocational competency in performing routine sharpening and maintenance of production tools and cutters at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>