



Australian Government

Assessment Requirements for MEM26016

Select and use joining techniques

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM26016A Select and use joining techniques

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 specifications, formulas/recipes, batch sheets, safety data sheets (SDS) for selecting and using joining techniques
- considering all reasonably available joining techniques and materials when selecting and choosing the appropriate technique
- preparing surfaces to be joined
- making a sample join and conducting/organising relevant test and evaluating the test results and making any required changes, as appropriate
- completing the required join using hand and power tools, applying assembly techniques and applying bonding joiner and techniques and minimising waste in accordance with procedures
- identifying areas for improvement and taking appropriate action
- completing all documentation and reporting items requiring further action in accordance with SOPs.

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)
- adhesives (e.g. plexus – methylmethacrylate)
- sealants (e.g. sikaflex – silicon or butyl mastic)
- mechanical joining
- substrates and interactions with joiner
- surface preparation of substrate
- application methods
- clamping forces (minimum and maximum)
- adhesive/sealant thickness
- primers

- design rules around fastening (e.g. minimum area for pop rivets, rivet spacing and rivet patterns)
- edge finish of pilot holes
- quality requirements with the hole preparation and with the installation of fasteners
- radius of edge of laminate
- effect of flatness and smoothness of joining surfaces
- substrate composition in joining area.

Assessment Conditions

- Assessors must:
 - have vocational competency in selecting and using joining techniques 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>