



Australian Government

Assessment Requirements for MEM19034 Apply chain manufacture process

Release: 1

Assessment Requirements for MEM19034 Apply chain manufacture process

Modification History

Release 1. Supersedes and is equivalent to MEM19034A Apply chain manufacture process.

Performance Evidence

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

- following work instructions, standard operating procedures (SOPs) and safe work practices
- applying chain manufacturing process on at least two occasions in accordance with SOPs, including the use of tools and equipment
- calculating and cutting materials and rolling materials to size and thickness
- annealing to relieve stress and work hardening according to job requirements
- drawing materials to size required
- producing jewellery chains from wire on at least two occasions using soldering materials and equipment
- finishing jewellery chains to a blemish-free high lustre.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

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)
- equipment and techniques used in chain manufacture
- uses of wire and chain
- use of rolling equipment and techniques for rolling
- calculations and measurements
- procedures to anneal material and reasons for stress relieving metal
- equipment and techniques and safety requirements for wire drawing
- use of cleaning solution and safe practices with chemicals
- procedure to make a split jig
- techniques for coiling and cutting link wire
- procedures to fit and solder chain links
- safe use of polishing lathe and polishing tumbler
- selection and use of buffs and compounds

- selection, use and maintenance of steel polishing shot
- environmental considerations related to chain manufacture.
-

Assessment Conditions

- Assessors must:
 - have vocational competency in applying chain manufacture process 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>