



Australian Government

**Assessment Requirements for MEM21012
Service and repair mechanical watch
oscillating systems**

Release: 1

Assessment Requirements for MEM21012 Service and repair mechanical watch oscillating systems

Modification History

Release 1. Supersedes and is equivalent to MEM21012A Service and repair mechanical watch oscillating systems

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
- liaising with customer, verifying condition and performance, and identifying repair costs
- identifying different types and grades of mechanical watch oscillating systems
- diagnosing faults in mechanical watch oscillating systems for wear and damage and determining appropriate repair action
- inspecting and repairing faults in mechanical watch oscillating systems using appropriate workshop tools and equipment
- repairing a mechanical watch with broken or worn balance staff utilising type and method of balance staff removal and replacement
- inspecting and adjusting oscillator components for optimum performance in accordance with specifications
- recording and documenting repairs.

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)
- types and grades of balance wheel construction
- types of balance staffs construction
- types of balance spring construction
- types of rollers and roller jewels construction
- balance staff replacement techniques and workshop procedures
- performance characteristics of balance wheel completes
- balance spring adjusting techniques
- operating principles of shock protection devices
- construction of shock protection devices
- watch servicing procedures and techniques.

Assessment Conditions

- Assessors must:
 - have vocational competency in servicing and repairing mechanical watch oscillating systems 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>