



Australian Government

Assessment Requirements for MEM19021 Diagnose and service micro-mechanisms

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM19021B Diagnose and service micro-mechanisms

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
- inspecting feature and performance characteristics for given mechanism
- performing checks and verifying functioning of mechanisms, including identifying faults affecting performance
- identifying missing and damaged components and determining remedial action
- sourcing replacement parts using parts and movement catalogues
- determining sequence required for servicing with reference to available parts, design of product and nature of servicing requirement
- determining the overall repair costs, including provision for replacement of parts
- cleaning and refinishing components and selecting and applying lubricant according to on materials used and torque requirements
- evaluating water resistance of completed watch and adjusting timekeeping to tolerance.

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)
- methods for identifying performance characteristics
- reasons for specific performance problems and faults
- faults in design or materials and special servicing requirements
- general condition features, including obvious damage
- interchangeability of parts for specific timepiece
- factors affecting sequence and process for servicing
- techniques, tools and diagnostic equipment for diagnosing and identifying performance problems
- techniques for dismantling assemblies and subassemblies
- operation of equipment for refinishing pivot and bearing replacement
- techniques and procedures for assembling components, assemblies and subassemblies

- applications and use of different lubricants
- correct alignment of hands relating to date change mechanism and dial graduations
- adjusting timekeeping.

Assessment Conditions

- Assessors must:
 - have vocational competency in diagnosing and servicing micro-mechanisms 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>