



Australian Government

Assessment Requirements for MEAMEC0055 Shot-peen aircraft components

Release: 1

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Modification History

Release 1. Application changed. Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed, and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and is equivalent to MEA368 Shot peen aircraft components.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- shot-peen applications on more than one aircraft component
- apply correct stand-off distances for either of the following:
 - nozzle distance from surface for air pressure shot peening processes, or
 - spindle distance from job for rotor shot peening
- regulate air pressure or spindle speed through either the specified air pressure applied to the shot nozzle or the specified revolutions per minute (r.p.m.) of the spindle in the rotor peening process.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- how to obtain relevant material safety data sheets (MSDSs)
- the correct use of personal protective equipment (PPE)
- work health and safety (WHS) procedures
- the reasons for shot peening
- the types of aircraft component and the materials that are shot peened
- shot-peening equipment and processes applicable to aircraft components, including:
 - air pressure or rotor propulsion of shot
 - fixed or portable shot peen units
- the uses of different types of shot peening media
- the use of process documentation
- the types of Almen test strips and their uses
- setting up and calibrating equipment for use
- preparation of surfaces for peening and cleaning after peening
- environmental requirements associated with disposal of used media.

Assessment Conditions

The following conditions of assessment represent the requirements of the regulators Defence Aviation Safety Authority (DASA) and Civil Aviation Safety Authority (CASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in shot-peening aircraft components. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - Almen test strips
 - general and special purpose tools and test equipment found in most routine situations
 - shot peening equipment and process documentation.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>