



Australian Government

Assessment Requirements for MSFPT4009 Tune unisons aurally to a beatless condition

Release: 1

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Modification History

Release 1. Changes to code, application, elements, performance criteria, assessment requirements. Foundation skills added. Range of conditions removed. Assessment requirements changed.

Performance Evidence

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

- tune at least two unisons aurally on at least one upright or grand piano
- detect aurally the differences in frequency between strings within $\pm .5$ cent without the aid of an electronic device where the fundamentals are matching with no audible interfering patterns, at least once.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace standards, requirements, policies and procedures for tuning pianos
- types, characteristics, uses, limitations and preparation of materials and equipment used in piano tuning
- types of tools and equipment used to regulate actions, keys and pedals and procedures for their safe use, operation and maintenance, including:
 - pitch standard
 - tuning lever/hammer
 - temperament strip
 - mutes and wedges
 - tip wrench
 - tuning tips and heads
- best physical and ergonomic approaches to promote muscle control and avoid fatigue, including:
 - standing or seated according to type of piano and height of individual
 - evenly distributing body weight between both feet while standing to reduce fatigue
 - use a resting arm, where available, to aid control during tuning and reduce tiredness
- pitch standards, including:
 - piano
 - electronic tuning device (ETD)
 - tuning fork
- techniques for using hammers, including:

- selection of tuning tip and angle
- jerking movements
- positioning hammer on pin at correct angle to avoid bending of tuning pin
- stabilisation techniques, including:
 - use of firm key blows in conjunction with placement of pin
 - calculation of string stretch
- problem identification for tuning unisons and resolution
- set-up and operation of tools and equipment used for tuning pianos
- how to identify the fundamental string (the first string of a given note that is tuned to an external pitch standard) and the adjacent string
- how to recognise that in a bi-cord, the string selected can be either side of the fundamental, while in a tri-cord, three adjacent strings are tuned
- how to identify beatless condition where two strings are at the same frequency
- procedures for recording, reporting and maintaining workplace records and information
- work health and safety requirements for piano tuning.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources required for performance evidence, including:
 - pianos for tuning
 - tools and materials used in piano tuning
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials.

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=0601ab95-583a-4e93-b2d4-cfb27b03ed73>