



Australian Government

MSFPT4011 Tune a temperament octave to produce an equally tempered scale

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.

Application

This unit describes the skills and knowledge required to tune temperaments on both upright and grand pianos to produce an equally tempered scale. It may involve using a pitch standard to establish the start note.

This unit applies to piano technologists who work in accordance with established procedures, using discretion, judgement and problem-solving to apply and communicate technical solutions to resolve predictable and unpredictable issues. They use factual, technical and theoretical knowledge to identify, analyse, compare and act on information from a range of sources.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Competency Field

Piano Technology

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Plan and prepare for tuning temperaments	1.1 Analyse and confirm job requirements with personnel, customer or from workplace documentation 1.2 Identify and follow work health and safety requirements including physical and ergonomic needs 1.3 Establish and maintain communication with others involved with work to ensure efficient workflow, coordination, personnel cooperation and safety 1.4 Analyse written instructions and apply to job requirements 1.5 Select tools and equipment consistent with needs of job, inspect for serviceability and safety, and repair any faults or report in accordance

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	with workplace procedures
2. Tune temperament	2.1 Tune start note in temperament octave from established pitch reference 2.2 Tune temperament octave using 4 th and 5 th cycle, following a set order of notes 2.3 Confirm correct positions using 3 rd and 6 th checks individually and chromatically
3. Clean up work area	3.1 Check, clean and store equipment and any unused materials in accordance with workplace procedures 3.2 Clean work area, safely dispose of waste and identify items for recycling in accordance with workplace procedures and environmental standards 3.3 Complete required workplace records

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret familiar workplace procedures and work documentation
- Writing skills to communicate information in familiar workplace documents
- Numeracy skills to work with numerical concepts involved in piano tuning.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is not equivalent to MSFPT3013 Tune a temperament octave to produce an equally tempered scale.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFPT4011 Tune a temperament octave to produce an equally tempered scale

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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 temperament octaves to produce an equally tempered scale on at least one upright or one grand piano.

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
- how to identify and work from the start note (the note in the temperament octave that corresponds to the note tuned from the pitch standard)
- how to identify and work from the pitch reference (the first note tuned on piano from pitch standard generally accepted as being A49/C52 or corresponding notes one octave below, which are A37/C40)
- how to identify and work with a temperate octave (notes F 33 through to F 45, with some temperaments spread over 1½ octaves)
- problem identification for temperate octaves and resolution
- set-up and operation of tools and equipment used for tuning pianos
- procedures for recording, reporting and maintaining workplace records and information
- 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
- work health and safety requirements for piano tuning.

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.

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