



Australian Government

MSFPT4012 Tune a piano aurally and electronically

Release: 1

MSFPT4012 Tune a piano aurally and electronically

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 an upright and grand piano to a set level of accuracy within a specified timeframe and to an appropriate level of accuracy using aural or electronic tuning devices (ETD) that may include computer software or a hardware device. It applies in workplace and on-site environments for small- to large-scale enterprises.

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	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

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	with workplace procedures
2. Dismantle piano	2.1 Determine required procedure for dismantling piano to meet job requirements 2.2 Dismantle piano to allow access to internal components during tuning process 2.3 Safely store all piano parts while performing tuning tasks in accordance with procedures
3. Tune piano	3.1 Accurately tune start note to a pitch standard 3.2 Assess and tune temperament octave F33-F45 to desired standard 3.3 Assess and tune octaves and unisons to desired standard in accordance with requirements 3.4 Use interval checks to assess accuracy throughout tuning process 3.5 Achieve stable tuning within industry-established timeframes without damage to piano components
4. Re-assemble piano	4.1 Assess and identify case parts and place for re-assembly 4.2 Reassemble case parts in accordance with workplace practices
5. Clean up work area	5.1 Check, clean and store equipment and any unused materials in accordance with workplace procedures 5.2 Clean work area, safely dispose of waste and identify items for recycling in accordance with workplace procedures and environmental standards 5.3 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 MSFPT3014 Tune a piano aurally and electronically within time and accuracy constraints.

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 MSFPT4012 Tune a piano aurally and electronically

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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:

- tune 2 upright or grand pianos aurally and electronically.

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 tune pianos 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
- procedures for dismantling upright and grand pianos:
 - upright piano:
 - removal of top front board and fall board
 - lift lid
 - grand piano:
 - removal of fall board and music disk
 - lift lid
- how to identify and the definitions of a start note:
 - the note in the temperament octave that corresponds to the note tuned from the pitch standard
 - 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
- pitch standards, including:

- piano
- electronic tuning device
- tuning fork
- interval checks to be used in assessing tuning, including:
 - thirds
 - fourths
 - fifths
 - sixths
 - sevenths
 - tenths
- common types of piano damage and methods to avoid causing them:
 - bent tuning pins
 - broken strings
 - elongated tuning pin holes
 - damaged bearings
- problem identification for tuning and resolution
- set-up and operation of tools and equipment used for tuning pianos
- procedures for recording, reporting and maintaining workplace records and information
- types of customer requirements and how these affect tuning activities, including:
 - level of playing required:
 - standard of pianist
 - time piano is used
 - environment
 - location of piano
 - pitch requirements
 - budget
- 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.
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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.

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