



Australian Government

MSFPT4008 Pitch raise a piano

Release: 1

MSFPT4008 Pitch raise a piano

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 identify the need for pitch raising (when a piano is more than one cycle flat or sharp from desired standard), and pitch raise a piano prior to the tuning process by calculating and assessing the ability of an upright or grand piano to achieve the desired pitch, including assessment of overpull or stretch of strings.

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 pitch raising	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. Assess suitability of piano for pitch raise	2.1 Assess components used in pitch raising for suitability 2.2 Analyse distance from target pitch 2.3 Calculate overpull/stretch required to achieve target pitch 2.4 Establish required pitch standard
3. Pitch raise piano	3.1 Tune strings in accordance with required process 3.2 Pitch raise to achieve an accuracy of ± 5 cent per note 3.3 Demonstrate correct tuning hammer technique to achieve required standard
4. Clean up work area	4.1 Check, clean and store equipment and any unused materials in accordance with workplace procedures 4.2 Clean work area, safely dispose of waste and identify items for recycling in accordance with workplace procedures and environmental standards 4.3 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 MSFPT3010 Pitch raise a piano.

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 MSFPT4008 Pitch raise a piano

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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 a minimum of three sets of strings on at least one upright or one grand piano
- pitch raise a minimum of three times 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 regulating piano pitch
- types, characteristics, uses, limitations and preparation of materials and equipment used in piano regulating
- types of tools and equipment used to pitch raise and procedures for their safe use, operation and maintenance, including:
 - tuning fork
 - tuning lever/hammer
 - temperament strip
 - mutes and wedges
 - tip wrench
 - tuning tips and heads
 - pitch standard
- components involved in pitch raising a piano, including:
 - strings
 - wrest plank/tuning plank
 - frame
 - soundboard
 - bridges
- pitch standards, including:
 - piano
 - electronic keyboard
 - electronic tuning device (ETD)
 - tuning fork
- how to identify which tuning process is required, including:

- for a small pitch raise, normal tuning sequence
- for a significant pitch raise, fast tuning sequence followed by normal tuning sequence to achieve tuning stability problem identification of pitch and pitch raising 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.

Links

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