



Australian Government

MSFPT4013 Voice a piano

Release: 1

MSFPT4013 Voice 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 voice a piano to change the tone from harsh to soft or soft to harsh, and to make the tone even after tuning. Work may include needling, reshaping and hardening hammers to change the tone.

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 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 voicing a piano	1.1 Analyse and confirm job requirements with personnel, customer or from workplace documentation 1.2 Identify 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 Select tools and equipment consistent with needs of job, inspect for serviceability and safety, and repair any faults or report in accordance with workplace procedures 1.5 Confirm that piano has been tuned and regulated to industry standards before voicing is commenced

2. Voice a piano	2.1 Assess tone of piano to identify undesirable tonal qualities in consultation with customer or workplace documentation 2.2 Reshape surface felt to ensure a clean and square striking surface 2.3 Assess tonal effects and response and perform required adjustments to needling on to achieve desired tonal effects and to balance tonal response 2.4 Reshape hammers after needling to ensure correct shape and surface texture 2.5 Assess requirements for ironing or hardening hammers and make changes in accordance with workplace procedures 2.6 Assess final tonal quality against customer requirements and make any required adjustments
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 MSFPT3015 Voice 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 MSFPT4013 Voice a piano

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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:

- voice at least one upright or grand piano.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace standards, requirements, policies and procedures for tuning and voicing pianos
- knowledge of piano tuning and regulation methodologies
- the nature of undesirable piano tonal qualities, including:
 - harsh/soft noise which may occur when there is a loose hammer head, loose centre pins or uneven level strings
 - string noises
 - false beats in strings
 - bright or metallic sound due to hard hammers
- needling techniques, including:
 - correct method of supporting the hammers to avoid damage to action centres
 - selecting the appropriate needling zones to achieve particular tonal effects
- hardening techniques, including:
 - lacquers
 - irons
 - collodion
- types, characteristics, uses, limitations and preparation of materials and equipment used in piano tuning and voicing
- types of tools and equipment used to tune and voice pianos and procedures for their safe use, operation and maintenance, including:
 - screwdrivers
 - voicing needles
 - voicing tools and blocks
 - hammer iron
 - lacquer and brush
 - sandpaper

- hammer lifting tool
- tuning wedge
- string level tool
- string lifting tool
- problem identification for piano voicing 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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