



Australian Government

MSFPT4002 Research and apply information about piano technology

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 ability to research and apply knowledge of piano technology to tuning, maintenance, repair and customer advice tasks. It includes knowledge of piano types, piano structures and materials, and the historical evolution of piano technology.

Piano technologists with this competency use discretion, judgement and problem-solving to identify, communicate and implement technical solutions based on an understanding of piano history, construction, and technology.

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. Research historical and contemporary aspects of piano technology	1.1 Identify credible sources of information about piano technology and history 1.2 Source and review information about historical and contemporary piano technology and its relevance to current scope of work 1.3 Establish the contemporary role of piano technicians from research
2. Apply research to work	2.1 Analyse construction of piano to determine work required 2.2 Assess major systems and their parts and functions before commencing work 2.3 Distinguish playing mechanisms and potential implications for tuning and repair 2.4 Select work practices that are suited to age and style of piano being

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	tuned or repaired
3. Maintain knowledge for piano technology work	3.1 Identify opportunities for ongoing development of knowledge to support work in piano technology 3.2 Incorporate updated knowledge and learning into day-to-day work activities

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 source and interpret diverse types of unfamiliar information
- Technology skills to use digital media for research.

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 MSFPT3001 Apply piano industry knowledge and work techniques.

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 MSFPT4002 Research and apply information about piano technology

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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:

- source and research information from 3 different sources on the following:
 - traditional and contemporary upright and grand piano design and the variety of mechanisms used in pianos and how these affect piano technology work
- apply this knowledge to the planning and implementation of 2 different piano tuning or repair jobs.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- sources of credible information about piano technology
- types, characteristics, uses, limitations and preparation of materials and equipment used in piano tuning and repair
- original keyboard instrument types and their features, including:
 - zither
 - clavichord
 - harpsichord
 - forte piano
 - piano
- different periods of keyboard instrument development, including:
 - antique (1700–1850)
 - Victorian (1850–1900)
 - modern (1900–2000)
 - current (2000 onwards)
- types of pianos, including:
 - vertical:
 - upright
 - spinet
 - console
 - player

- grand:
 - baby (4'6"–6')
 - professional (6'–7'6")
 - concert (7'6"–9'+)
 - square
- piano infrastructure features, including systems:
 - the case
 - timing pins
 - soundboard and bridges
 - strings
 - pinblock and tuning pins
 - keys and actions
 - actions
 - soundboard/bridges
 - strings
 - structural
- terms used to describe piano components and systems
- facets of role of piano technicians, including:
 - quotations
 - tuning
 - repairs
 - rebuilding
 - restoration
 - polishing
 - piano moving
 - selling
 - advice on purchases
 - areas of change that affect the piano technician role, including:
 - restriction to tuning or repairs only
 - less or more restoration
 - less or more major repairs
 - increased use of technology in tuning process
- established lines of communication and protocols for piano technologists and their customers
- work health and safety requirements that impact the piano technician role.
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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:
 - upright or grand pianos
 - information technology for research purposes 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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