



Australian Government

MSFPT3004 Rebuild upright and grand piano actions, keys and pedals

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers rebuilding upright and grand piano actions, keys and pedals. It includes removing and rebuilding of keys and key leads; damaged or worn felts, leathers and action springs; and broken hammerheads. It applies in workplace and on-site environments for small to large scale enterprises.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Competency Field

Unit Sector

Piano Technology

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---|--|-----|--|
| 1 | Plan for rebuilding actions, keys and pedals | 1.1 | Work health and safety (WHS) requirements, legislative requirements and workplace practices relevant to rebuilding pianos are verified and complied with |
| | | 1.2 | Customer requirements are received, analysed and confirmed with appropriate personnel |
| | | 1.3 | Communication with others involved with the work is established and maintained to ensure efficient work flow, coordination, personnel cooperation and safety |
| | | 1.4 | Written instructions are followed |
| 2 | Prepare to rebuild | 2.1 | Tools and equipment are selected consistent with the needs of the job |

- 2.2 Selected tools and equipment are checked for service ability and safety, and any faults repaired and reported according to workplace practices
 - 2.3 Personal protective equipment is correctly fitted and used
 - 2.4 Materials required for the repair of piano actions, keys and pedals are selected
 - 3 Dismantle actions and keys
 - 3.1 Correct posture for rebuilding is demonstrated which minimises fatigue and promotes muscular control
 - 3.2 Actions are dismantled and all parts are named and numbered
 - 3.3 Keys are removed from keyboard and named and numbered
 - 3.4 Pedals are removed
 - 4 Rebuild parts
 - 4.1 Parts to be rebuilt or reconditioned are identified
 - 4.2 Parts are measured and stripped of old materials in preparation for reconditioning
 - 4.3 Parts are measured and reconfigured in preparation for rebuilding
 - 4.4 Rebuilding or reconditioning of actions, key and pedals is carried out as required
 - 4.5 Quality of the rebuilding process is continuously monitored in accordance with workplace practice and quality procedures
 - 4.6 Piano actions, keys and pedals are re-assembled according to workplace practices
 - 5 Clean up work area
 - 5.1 All tools, materials and other equipment are checked, cleaned and returned to their appropriate location
 - 5.2 Work area is cleared and waste removed
 - 5.3 Workplace documentation is completed and filed

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Range is restricted to essential operating conditions and any other variables essential to the work environment.

- Unit context includes:**
- WHS requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent
 - work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
 - work requires individuals to demonstrate some discretion, judgement and problem solving
- Tools and equipment include:**
- knives
 - guillotine
 - measuring equipment
 - centering equipment
 - glue brushes and sticks
 - glue pots
- Correct posture includes:**
- standing or seated according to type of piano and height of individual
 - evenly distributing body weight between both feet while standing to reduce fatigue
 - resting arm where available to aid control during tuning and reduce tiredness
- Materials include:**
- action felts and leathers
 - key bushings
 - key frame materials
 - springs and action components
 - key tops
 - pedal caps
 - pedal trap bushings

- centre pins
 - hammer heads
 - bridle tapes
- Rebuilding includes:**
- replacing the following with new components:
 - hammer heads and assembly
 - wippen assembly
 - keys
 - action rails
 - pedals and trappings
 - springs
 - action brackets
- Reconditioning includes:**
- repairing action components to an as new condition replacing existing parts with new materials
- Personal protective equipment includes:**
- that prescribed under legislation, regulations and enterprise policies and practices
- Information and procedures include:**
- workplace procedures relating to the use of tools and equipment
 - work instructions, including job sheets, cutting lists, plans, drawings and designs
 - workplace procedures relating to reporting and communication
 - manufacturer specifications and operational procedures

Unit Mapping Information

Supersedes and is equivalent to LMFPT3004A Rebuild upright and grand piano actions, keys and pedals.

Links

Companion Volume implementation guides are found in VETNet -

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