

Australian Government

Department of Education, Employment and Workplace Relations

LMFPT3006A Regulate action, keys and pedals of upright pianos

Revision Number: 1



LMFPT3006A Regulate action, keys and pedals of upright pianos

Modification History

Not applicable.

Unit Descriptor

1	This unit describes the skills and knowledge required to
	regulate upright piano action, keys and pedals.

Application of the Unit

Application of the unit	This unit applies to the skills and knowledge required to regulate upright piano actions, keys and pedals and may include carrying out a series of adjustments to ensure optimum performance of the piano. The unit applies in a workplace and onsite environment and may be conducted in a small to large scale enterprise.
	The type of work tasks performed when relating upright pianos may include adjusting: action rail, striking distance, hammer running alignment, key depth, lost motion, set off, checking distance, damper spoon bending, damper stop rail, jack stop rail and sustain, soft, mute and sostenuto pedals.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT PERFORMANCE CI	RITERIA
	ents, legislative requirements and tices relevant to regulating pianos are nplied with.
1	rements are received, analysed and appropriate personnel.
is established an workflow, coor	n with others involved with the work ad maintained to ensure efficient dination, personnel cooperation and at the application of this competency.
1.4. Written instruc	ions are followed.
1 0 1	e for regulating is demonstrated which ue and promotes muscular control
2.2. <i>Tools and equi</i> needs of the job	<i>pment</i> are selected consistent with the .
ability and safe	nd equipment are checked for service y and any faults repaired and reported rkplace practices
2.4. Personal prote- used	ctive equipment is correctly fitted and
3. Align action3.1. Alignment of a	ction rail is checked and adjusted
components 3.2. Striking distance specifications	e is adjusted to industry
	g alignment and angling is adjusted ent procedures are performed
4. Regulate keyboard 4.1. Keys are space	according to industry specifications
4.2. Keys are levell	ed
4.3. Key depth is ac	justed
5. Regulate action5.1.Lost motion is	adjusted
5.2. Set off is adjust	
5.3. Checking dista	-
-	gulated to industry specifications
5.5. Damper spoon distance	bending is adjusted to half striking
5.6. Damper stop ra industry specifi	il and jack stop rail are adjusted to cations
6. Adjust pedals 6.1. Sustain pedal is third through its	adjusted to lift when the pedal is one motion
6.2 Soft padel is as	justed to an acceptable lost motion

ELEMENT	PERFORMANCE CRITERIA
	6.3. Mute pedal is adjusted for hammers to clear felt in rest position but strike felt in lock down position
	6.4. Sostenuto pedal is adjusted so relevant dampers are locked in position when note is played
7. Final check and inspection	7.1. Upright piano is inspected for playability and performance
	7.2. Adjustments to action and pedals as required
8. Clean up work area	 8.1. All tools, materials and other equipment are checked, cleaned and returned to their appropriate location 8.2. Work area is cleared and waste removed 8.3. <i>Workplace documentation</i> is completed and filed

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- read and understand documentation
- identify team performance required to meet customer needs
- use pre-checking and inspection techniques to anticipate problems and identify tools or equipment faults and take appropriate action
- show independence and initiative in making decisions
- plan and organize activities to avoid any backtracking, workflow interruptions, re-work or wastage, including preparation and layout of the worksite and selection of tools and equipment
- prioritise own work to meet customer requirements regarding completion time
- adapt to new skill requirements
- use workplace technology related to piano technology, including specified tools, equipment, calculators and measuring devices for piano tuning and repair

Required knowledge

- State or Territory OHS legislation, regulations, standards and codes of practice relevant to the full range of processes for regulating upright piano actions, keys and pedals
- organisational and site standards, requirements, policies and procedures for regulating upright piano actions, keys and pedals
- reading and interpreting workplace documents including work orders, work instructions and operator instructions
- environmental protection requirements relating to the disposal of waste material
- established lines of communication and protocols
- types, characteristics, uses, limitations and preparation of materials and equipment used in piano regulating
- types of tools and equipment used to regulate actions, keys and pedals and procedures for their safe use, operation and maintenance
- problem identification and resolution
- set up and operation of tools and equipment used for regulating actions, keys and pedals
- storage systems and labelling
- procedures for the recording, reporting and maintenance of workplace records and information
- appropriate mathematical procedures for estimation and measurement

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit	 Interpret work order, locate materials and use information to complete tasks to regulate upright piano actions, keys and pedals Identify tools and equipment used in regulating actions, keys and pedals Select, set up and maintain equipment in accordance with manufacturer specifications and workplace practices Regulate a minimum of three actions, keys and pedals in upright pianos Modify activities to cater for variations in workplace contexts and environment Communicate and work with others in the work area Apply safe handling practices and safe operating procedures for equipment, products and materials to: minimise the risk of injury to self or others prevent damage to goods, equipment and products Clean tools, equipment and work area Maintain and repair a range of hand and power tools, holding and support equipment, products and materials, including use of personal protective equipment
Context of and specific resources for assessment	Assessment may occur on the job or in a simulated workplace environment in accordance with work practices and safety requirements Assessment is to occur under standard work practices, and to comply with legislative and regulatory requirements.
	The following resources should be made available:
	 hand and power tools used in the tuning and repair of pianos materials used in the tuning and repair of pianos safety and personal protective equipment
	holding and supporting equipment

EVIDENCE GUIDE	
	workplace location or simulated workplaceupright pianos
Method of assessment	Assessment must confirm consistency (over time and in a range of workplace relevant contexts) in application of skills and knowledge when:
	 organising work completing tasks according to instructions working systematically with attention to detail identifying improvements and avoiding damage using workplace practices using OHS practices assessing operational readiness of tools and equipment recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions
	Assessment must include a variety of project or work activities that allow the candidate to demonstrate competency in the unit
	Assessment should be by direct observation of tasks and include questioning on required knowledge and skills to ensure correct interpretation and application.
	Assessment should be conducted over time and may be in conjunction with assessment of other units of competency

EVIDENCE GUIDE

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

regional contexts) may also be meraded.	
OHS requirements may include:	Relevant Federal, State or Territory OHS legislation, regulations, standards and codes of practice, and workplace policies and procedures including the use of personal protection equipment, hazard and risk control and manual handling.
Legislative requirements may include:	Relevant Federal, State or Territory legislation including award and enterprise agreements, industrial relations, Australian Standards, confidentiality and privacy, the environment, equal opportunity, anti-discrimination, industry codes of practice.
Workplace practices may include:	Site guidelines, policies and procedures relating to own role, quality assurance, procedural manuals, tool manufacturer's recommendations, ethical standards, recording and reporting, equipment use, maintenance and storage, environmental management (waste disposal, recycling, re-use).
Correct posture may include:	Standing or seating, according to type of piano and height of individual
	Even distribution of body weight between both feet while standing, to reduce fatigue
	Rest arm where available to aid control during tuning and reduce tiredness
Tools and equipment may include:	Capstan regulator, set off regulator, touch/dip block, rule, regulating buttons, damper regulator, key easing pliers, wire bender, screw driver
Personal protective equipment may include:	Safety glasses, goggles, hearing protection, safety footwear, protective clothing, gloves, respiratory protection
Acceptable lost motion may	2mm movement of pedal rod before hammer rest

RANGE STATEMENT	
include:	is activated
Workplace documentation may include:	Time sheets, customer cards, work orders including job sheets, cutting lists, plans, drawings and designs, tool maintenance records and schedules

Unit Sector(s)

Unit sector	Piano Technology
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Competency field

Competency field	

Co-requisite units

Co-requisite units	