



Australian Government

MSFPT3012 Tune octaves aurally to appropriate stretch

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers tuning octaves aurally so they achieve an even and accurate pitch and then continuing to tune strings while using hammer and stabilisation techniques. 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 tuning octaves aurally | 1.1 | Work health and safety (WHS) requirements, legislative requirements and workplace practices relevant to tuning octaves 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 tune octaves | 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
3	Tune the fundamental string aurally to a pitch standard	3.1 Correct posture for tuning is demonstrated which minimises fatigue and promotes muscular control 3.2 Given an external pitch standard, frequency of one string is matched to that pitch to within $\pm .5$ cent 3.3 Tuned string is stabilised using hammer techniques
4	Match frequency of a string 1 octave above or below pitch standard	4.1 Pitch of string/octave is adjusted above or below pitch standard 4.2 Stabilisation techniques are utilised 4.3 4 th and 5 th intervals are used to establish the highest or lowest beatless condition 4.4 The overtone of the primary note is matched a fundamental octave up, or the fundamental of a primary note is matched to the 1 st octave of one overtone lower 4.5 10 th , double octaves and minor 7 th checks are used 4.6 Intervals going up and down are tested to ensure tuning meets industry standards 4.7 Remaining octaves are tuned according to the above process
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:	• pitch standard • tuning lever/hammer • temperament strip • mutes and wedges • tip wrench • tuning tips and heads
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
Pitch standards include:	• piano • electronic keyboard • electronic tuning device (ETD) • tuning fork
Hammer techniques include:	• selection of tuning tip and angle • jerking movements • positioning hammer on pin at correct angle to avoid bending of tuning pin
Stabilisation techniques include:	• use of firm key blows in conjunction with placement of pin • calculation of string stretch
Personal protective equipment includes:	• that prescribed under legislation, regulations and enterprise policies and practices
Information and	• workplace procedures relating to the use of tools and

procedures include:

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 LMFP3012A Tune octaves aurally to appropriate stretch.

Links

Companion Volume implementation guides are found in VETNet -

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