



**Australian Government**

# **MSFPT3011 Tune unisons aurally to a beatless condition**

**Release: 1**

# MSFPT3011 Tune unisons aurally to a beatless condition

## Modification History

Release 1 - New unit of competency

## Application

This unit of competency covers tuning unisons aurally so they achieve an even and accurate pitch that may include the use of hammers 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.

- |   |                                 |     |  |
|---|---------------------------------|-----|--|
| 1 | Plan for tuning unisons aurally | 1.1 | Work health and safety (WHS) requirements, legislative requirements and workplace practices relevant to tuning unisons 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 unisons         | 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	Set a string	3.1 Correct posture for tuning is demonstrated which minimises fatigue and promotes muscular control.
	3.2	The fundamental string is tuned aurally to a pitch standard
	3.3	Given an external pitch standard, frequency of one string is matched to that pitch to within $\pm .5$ cent
	3.4	Tuned string is stabilised using correct hammer techniques
4	Tune an adjacent string in unison to the fundamental string	4.1 Pitch of unison string is adjusted to fundamental string, employing stabilisation techniques, to a beatless condition
	4.2	Remaining strings are tuned according to 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

	<ul style="list-style-type: none"><li>• work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements</li><li>• work requires individuals to demonstrate some discretion, judgement and problem solving</li></ul>
<b>Tools and equipment include:</b>	<ul style="list-style-type: none"><li>• pitch standard</li><li>• tuning lever/hammer</li><li>• temperament strip</li><li>• mutes and wedges</li><li>• tip wrench</li><li>• tuning tips and heads</li></ul>
<b>Correct posture includes:</b>	<ul style="list-style-type: none"><li>• standing or seated according to type of piano and height of individual</li><li>• evenly distributing body weight between both feet while standing to reduce fatigue</li><li>• resting arm where available to aid control during tuning and reduce tiredness</li></ul>
<b>Pitch standards include:</b>	<ul style="list-style-type: none"><li>• piano</li><li>• electronic keyboard</li><li>• electronic tuning device (ETD)</li><li>• tuning fork</li></ul>
<b>Hammer techniques include:</b>	<ul style="list-style-type: none"><li>• selection of tuning tip and angle</li><li>• jerking movements</li><li>• positioning hammer on pin at correct angle to avoid bending of tuning pin</li></ul>
<b>Stabilisation techniques include:</b>	<ul style="list-style-type: none"><li>• use of firm key blows in conjunction with placement of pin</li><li>• calculation of string stretch</li></ul>
<b>Personal protective equipment includes:</b>	<ul style="list-style-type: none"><li>• that prescribed under legislation, regulations and enterprise policies and practices</li></ul>
<b>Information and procedures include:</b>	<ul style="list-style-type: none"><li>• workplace procedures relating to the use of tools and equipment</li><li>• work instructions, including job sheets, cutting lists, plans, drawings and designs</li><li>• workplace procedures relating to reporting and communication</li><li>• manufacturer specifications and operational procedures</li></ul>

## Unit Mapping Information

Supersedes and is equivalent to LMFP3011A Tune unisons aurally to a beatless condition.

## Links

Companion Volume implementation guides are found in VETNet -

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