



Australian Government

Department of Education, Employment and Workplace Relations

LMF31508 Certificate III in Piano Technology

Revision Number: 1

LMF31508 Certificate III in Piano Technology

Modification History

Not applicable.

Description

This qualification describes the skills and knowledge required to repair, rebuild, re-pin, restring and tune upright and grand pianos.

Job roles/employment outcomes

The LMF31508 Certificate III in Piano Technology reflects vocational outcomes for those performing piano repair and tuning job roles in a defined range of skilled operations, usually within a range of broader related activities involving known routines, methods and procedures, where some discretion and judgement is required in the selection of equipment, services or contingency measures and within known time constraints.

Application

This qualification is typically used to develop skills and a breadth, depth and complexity of knowledge in piano repair and tuning techniques and would cover selecting, adapting and transferring this skill and knowledge to new environments and providing technical advice and some leadership in resolution of specific problems. Application would be across a range of roles in a variety of contexts with some complexity in the extent and choice of options available and may involve some responsibility for others. Participation in teams including group or team coordination may be required.

Pathways into the qualification

This qualification may be accessed by direct entry. Credit can be granted towards this qualification by those who have completed a relevant Certificate II Furnishing qualification such as LMF20202 Certificate II in Furniture Finishing or achieved equivalent industry experience.

Pathways from the qualification

Further training pathways from this qualification may include relevant Furnishing Certificate IV and Diploma qualifications and relevant supervisory, management or competitive manufacturing qualifications.

Licensing considerations

There are no specific licences that relate to this qualification. However, depending on the jurisdiction, licensing or regulatory requirements may apply to the use of some units in this qualification. Local regulations should be checked for details.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> • read and understand documentation • ask questions to gain information • communicate ideas and information to enable confirmation of work requirements, plans and specifications, coordination of work with other workers and customer, and report of work outcomes and problems • provide written and verbal information to customers regarding the tuning and/or repair • apply effective listening techniques • collect, organize and understand information related to piano tuning and repair work orders, work plans and safety procedures • complete standardized workplace information • use communication technologies efficiently • complete written documents, job cards, forms, timesheets and quotations • greet customer in an appropriate manner, use appropriate questioning and listening techniques and provide feedback to customer to satisfy customer needs and requirements
Teamwork	<ul style="list-style-type: none"> • work with others and in a team to assess tuning and repair requirements • develop positive workplace relationships • work with others and in a team to repair pianos • work as part of a team • share information with others relating to tuning and repair • work collaboratively with others to complete tasks in a timely manner • identify team performance required to meet customer needs
Problem-solving	<ul style="list-style-type: none"> • identify and report tuning and repair problems and make contribution to their solution • apply knowledge of tuning and repair processes to problem solving • use pre-checking and inspection techniques to anticipate problems and identify tools or equipment faults and take appropriate action • assess and evaluate skill requirements of self and others to perform tasks • identify and select practical solutions to problems using

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

	<p>analytical skills</p> <ul style="list-style-type: none"> • identify, diagnose and rectify faults • use problem solving techniques • rectify problems and faults • re-interpret customers' statements of problems into solution • resolve conflict through negotiation to ensure customer is happy with sound of piano
Initiative and enterprise	<ul style="list-style-type: none"> • participate in activities to initiate new ideas and suggest improvements to work practices • participate in establishing new ideas and work specifications for tuning pianos and repairing faults • show independence and initiative in making decisions • discuss initiative with colleagues to generate a range of options • assess and take appropriate action to minimize risks • manage innovation and change • determine opportunities to improve processes • collect and monitor information to identify trends that may require remedial action
Planning and organising	<ul style="list-style-type: none"> • plan and organize activities to avoid any backtracking, workflow interruptions, rework or wastage, including preparation and layout of the worksite and selection of tools and equipment • collect and organize information for the purpose of: <ul style="list-style-type: none"> • planning tasks and identifying task outcomes • planning use of resources • assessing and prioritizing tasks • managing time and resources • plan work requirements for self and others to meet tuning and repair schedules • sequence work to maximize safety and productivity • participate in continuous improvement processes
Self-management	<ul style="list-style-type: none"> • manage own time to complete tuning and repair against set deadlines, especially where piano is required for performances • use feedback from customer to improve work performance in tuning • take responsibility and display confidence in own ideas • prioritise own work to meet customer's requirements regarding completion time • manage own work performance to: <ul style="list-style-type: none"> • follow OHS and workplace practices • plan and organize work schedules and routines

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
	<ul style="list-style-type: none"> • maintain required production output • assess quality of own work • assess own skills and knowledge
Learning	<ul style="list-style-type: none"> • adapt to new skill requirements • research and apply new ideas and techniques • locate, interpret and apply information on piano technology and the use and maintenance of hand and power tools • apply mathematical applications for estimation and measurement • modify activities to cater for variations in workplace contexts and environment when tuning and repairing pianos • invest time and effort into learning new skills and techniques • be open to learning and accommodate change • apply reflective skills
Technology	<ul style="list-style-type: none"> • use workplace technology related to piano technology, including specified tools, equipment, calculators and measuring devices for piano tuning and repair • use hand and power tools to tune and repair pianos • use equipment to maintain and repair hand tools, power tools and holding and supporting equipment • use calculators and measuring devices to take measurements and estimate material requirements • use IT to organize, report and record information • use technology relevant to tuning/repairing pianos • use communication technologies in the workplace

Packaging Rules

Packaging Rules

To be awarded the LMF31508 Certificate III in Piano Technology, competency must be achieved in **twenty-five (25)** units of competency.

- **five (5)** core units of competency
- **twenty (20)** elective units of competency.

Note: Where prerequisite units apply, these have been listed, and must be considered in the total number of units.

CORE UNITS

Complete all **five (5)** units from this list.

Unit code	Unit title	Prerequisites
MSAENV272B	Participate in environmentally sustainable work practices	
MSAPMOHS200A	Work safely	
MSAPMOPS101A	Make measurements	
MSAPMSUP102A	Communicate in the workplace	
MSAPMSUP106A	Work in a team	

ELECTIVE UNITS

Select **twenty (20)** units from Groups A, B and C as specified below.

Group A

Select a minimum of **twelve (12)** units from Group A

Unit code	Unit title	Prerequisites
LMFPT3001A	Develop knowledge of piano industry	
LMFPT3002A	Select materials for piano actions and key repairs	
LMFPT3003A	Repair upright and grand piano actions, keys and pedals	
LMFPT3004A	Rebuild upright and grand piano actions, keys and pedals	
LMFPT3005A	Re-string and	

Unit code	Unit title	Prerequisites
	re-pin a piano	
LMFPT3006A	Regulate actions, keys and pedals of upright pianos	
LMFPT3007A	Regulate actions, keys and pedals of Grand Pianos	
LMFPT3008A	Understand piano tuning theory and basic acoustics	
LMFPT3009A	Develop control of tuning hammers	
LMFPT3010A	Pitch raise	
LMFPT3011A	Tune unisons aurally to a beatless condition	
LMFPT3012A	Tune octaves aurally to appropriate stretch	
LMFPT3013A	Tune a temperament octave to produce an equally tempered scale	
LMFPT3014A	Tune a piano aurally and/or electronically within time and accuracy constraints	
LMFPT3015A	Voice a piano	
LMFPT3016A	Provide advice to customers on piano tuning and repairs	

Group B

Select up to **eight (8)** units from Groups B and C

Unit code	Unit title	Prerequisites
LMFFF2008B	Apply surface coatings by hand	
LMFFF3006B	Repair and touch up surfaces	
LMFFF3008B	Apply traditional French polishing techniques	
LMFFM2002B	Assemble furnishing components	
LMFFM2006B	Hand make timber joints	
LMFFM2010B	Set up/operate and maintain basic static machines	
LMFGN2002B	Move and store materials and products	
LMFGN3001B	Read and interpret work documents	
LMFGN3002B	Estimate and cost job	
MCMT230A	Apply cost factors to work practices	
MCMT231A	Interpret product cost in terms of customer requirements	
TDTD297B	Shift a load using manually-operated equipment	

Unit code	Unit title	Prerequisites
TLID307E	Handle dangerous and hazardous goods	

Group C

Up to **five (5)** relevant units may be chosen from units not already selected from Groups A or B, or units available in this Training Package or other endorsed Training Packages and accredited courses. Those units must be aligned at Certificate II level (maximum 1 unit), Certificate III level (maximum 5 units) or Certificate IV level (maximum 1 unit).

Units selected from other Training Packages and accredited courses via Group C must be relevant to the qualification outcome and not duplicate units available within this qualification.

If Competitive Manufacturing units are chosen (identified as MSACM in the code), these should only be selected on the basis of work requirements.