



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **LMT40207 Certificate IV in Cotton Ginning**

**Revision Number: 1**

## **LMT40207 Certificate IV in Cotton Ginning**

### **Modification History**

Not applicable.

### **Description**

#### **Job roles/employment outcomes**

The Certificate IV covers occupations such as supervisors in cotton ginning operations. It allows for a multi-skilled outcome and provides a basis for career progression.

#### **Application**

This qualification is typically used to develop skill and knowledge in the application of specialised technical and supervisory skills within cotton ginning enterprises.

#### **Pathways into the qualification**

Direct entry into this qualification requires completion of a total of twenty-seven (27) units according to the rules described below.

Credit may be granted towards this qualification by those who have completed LMT30307 Certificate III in Cotton Ginning or achieved equivalent industry experience.

#### **Pathways from the qualification**

Further training pathways from this qualification include MSA51108 Diploma of Competitive Manufacturing or other relevant manufacturing or management qualifications.

#### **Licensing considerations**

There are no specific licences that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements in some environments. 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 Skills Summary - Certificate IV in Cotton Ginning

The following table contains a summary of the Employability Skills as identified by the Cotton Ginning industries for this qualification. This table should be interpreted in conjunction with the detailed requirements of each unit of competency packaged in this qualification. The outcomes described here are broad industry requirements that reflect skill requirements for this level.

Employability Skill	Industry/enterprise requirements for this qualification include:
<b>Communication</b>	<ul style="list-style-type: none"> <li>• understand personal requirements of relevant industry and workplace standards, regulations and policies</li> <li>• complete standard documentation</li> <li>• use communication technologies efficiently</li> <li>• communicate technical issues and procedures about cotton ginning</li> <li>• communicate to others ginning operational requirements</li> <li>• ensure ginning records are accurate and legible</li> <li>• establish effective working relationships with colleagues</li> <li>• undertake interactive workplace communication</li> <li>• demonstrate effective and appropriate communication and interpersonal skills when dealing with people from a range of backgrounds</li> <li>• develop and communicate work instructions, specifications and procedures for production</li> </ul>
<b>Teamwork</b>	<ul style="list-style-type: none"> <li>• explain and implement work team reporting requirements</li> <li>• monitor work team tasks in accordance with regulatory and workplace requirements</li> <li>• provide leadership and encourage others in working cooperatively with people of different ages, gender, race or religion</li> <li>• undertake appropriate and effective communication with team members</li> <li>• participate in sustainability improvements</li> <li>• liaise with and provide support to other team members</li> <li>• keep team members informed of changes to work practices</li> <li>• identify team performance required to meet customer needs</li> </ul>

**EMPLOYABILITY SKILLS QUALIFICATION SUMMARY**

	<ul style="list-style-type: none"> <li>• provide leadership to others in the team</li> <li>• encourage the sharing of information between team members</li> <li>• plan and support team activities</li> </ul>
<b>Problem-solving</b>	<ul style="list-style-type: none"> <li>• identify risks and implement risk control measures for machinery and equipment</li> <li>• identify and act on environmental hazards</li> <li>• identify and address machinery problems and faults</li> <li>• check performance of machinery</li> <li>• assess and evaluate skills requirements of self and others to perform tasks</li> <li>• deal with and promptly resolve issues</li> <li>• conduct tests, analyse results and use other problem solving techniques to determine ginning requirements</li> <li>• manage cotton ginning technical processes and provide problem solving support to team members</li> <li>• implement changes to ginning procedures when required</li> <li>• examine tools and machinery for damage, missing components or other defects</li> <li>• analyse relevant workplace data to identify hazards, assess risks and evaluate the effectiveness of risk control measures</li> </ul>
<b>Initiative and enterprise</b>	<ul style="list-style-type: none"> <li>• seek and provide feedback on cotton ginning processes and procedures</li> <li>• collect and monitor information from a variety of sources including customers, suppliers, technical resources and regulatory authorities</li> <li>• identify non-conformances to standards and take appropriate action</li> <li>• identify potential areas for improvement to environmental performance</li> <li>• rectify problems promptly and appropriately</li> <li>• monitor and adjust activity in response to variations caused by differences in raw cotton, equipment condition and customer requirements</li> <li>• identify and address existing and potential risks</li> <li>• monitor information and records to identify trends that may require remedial action</li> <li>• develop and promote continuous improvement</li> <li>• gather and analyse information on machinery or ginning process problems</li> </ul>

**EMPLOYABILITY SKILLS QUALIFICATION SUMMARY**

	<ul style="list-style-type: none"> <li>record information on the quality and other indicators of ginning performance</li> <li>adjust and implement production schedules changes</li> </ul>
<b>Planning and organising</b>	<ul style="list-style-type: none"> <li>monitor quality outcomes</li> <li>allocate tasks to operators</li> <li>implement contingency plan promptly when incidents occur</li> <li>identify training needs for the work team and seek training support</li> <li>monitor equipment condition and performance</li> <li>identify hazards and implement appropriate hazard control measures</li> <li>organise self and others to meet production schedules</li> <li>identify and rectify parts and other shortages in advance</li> <li>sequence work to maximise safety and productivity</li> <li>select and use appropriate hand and power tools</li> <li>identify labour requirements to achieve efficient ginning and perform required services</li> <li>determine materials, chemicals, quality and ginning production requirements</li> <li>apply time management skills to ensure flow of modules to gin according to ginning schedule</li> </ul>
<b>Self-management</b>	<ul style="list-style-type: none"> <li>monitor information in work area</li> <li>monitor and keep work areas clean and tidy at all times</li> <li>conduct regular housekeeping activities during shift</li> <li>locate, interpret and apply relevant OHS, ginning process and equipment information</li> <li>monitor own work against quality standards</li> <li>understand own work activities and responsibilities</li> <li>identify and apply safety procedures, including the use of protective equipment</li> <li>manage work load priorities</li> <li>interpret and apply relevant acts and regulations</li> <li>develop and implement workplace procedures and instructions</li> <li>establish own work schedule</li> <li>monitor use of resources</li> <li>accept responsibility for quality of work</li> </ul>
<b>Learning</b>	<ul style="list-style-type: none"> <li>recognise limits of own expertise</li> </ul>

**EMPLOYABILITY SKILLS QUALIFICATION SUMMARY**

	<ul style="list-style-type: none"> <li>• assess competencies in meeting job requirements</li> <li>• ask questions to expand own knowledge</li> <li>• identify own training needs and seek skill development if required</li> <li>• listen to feedback from others</li> <li>• identify sources of information to expand knowledge and understanding</li> <li>• learn about sustainability developments relating to work practice</li> <li>• identify and address skill development needs of others in the team</li> </ul>
<b>Technology</b>	<ul style="list-style-type: none"> <li>• use software applications effectively</li> <li>• properly start up, operate and shut down control equipment</li> <li>• work with technology safely and according to workplace standards</li> <li>• establish standard operating procedures</li> <li>• carry out pre-operational checks on equipment and machines</li> <li>• operate ginning equipment and other machines safely, efficiently and to productivity requirements</li> <li>• monitor and adjust machine functions according to manufacturer's instructions and ginning requirements</li> <li>• perform machine maintenance and problem solving</li> <li>• clean and check equipment and machines</li> </ul>

## Packaging Rules

### Packaging Rules

To be awarded the Certificate IV in Cotton Ginning, competency must be achieved in twenty-seven (27) units of competency.

- Eighteen (18) core units of competency
- Nine (9) elective units of competency as specified below.

If Certificate III has been achieved, an additional five (5) units are required according to the rules described. Units that have been credited towards lower level qualifications must not be selected in the additional five (5) unit requirement.

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

## CORE UNITS

Complete all eighteen (18) units from this list

Unit code	Unit title
LMTCG2001A	Identify cotton characteristics
LMTCG2002A	Gin cotton
LMTCG2003A	Control bale or mote press operations
LMTCG3001A	Identify factors that impact on cotton quality
LMTCG3002A	Perform advanced operational maintenance of cotton ginning machines and equipment
LMTGN2001B	Follow defined OH&S policies and procedures
LMTGN2002B	Apply quality standards
LMTGN2003B	Work in the Textiles, Clothing and Footwear industry
LMTGN2010B	Perform tasks to support production
LMTGN3001B	Control production in a section of a Textiles, Clothing and Footwear enterprise
LMTGN3002B	Organise and plan own work to achieve planned outcomes
LMTGN4010A	Implement and monitor OH&S in the workplace
MEM11010B	Operate mobile load shifting equipment
MEM12023A	Perform engineering measurements
MEM13001B	Perform emergency first aid
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations
MSAENV272B	Participate in environmentally sustainable work practices

## ELECTIVE UNITS

Select nine (9) units as specified below.

- A minimum of five (5) units must be selected from Group A
- A maximum of four (4) units may be selected from Group B

NOTE: Competitive Manufacturing Training Package units, identified in Group A as MSACM coded units, should be selected on the basis of work requirements. Those at Certificate II level (units in the 200 series) are appropriate for operators. MSACM units for those in Certificate III level positions such as team leaders should be selected from both the 200 series and the 400 series.

### GROUP A

Unit code	Unit title	Prerequisites
FNSACCT403B	Prepare operational budgets	
LMTCG3003A	Assist in overhauling or repairing cotton ginning fluid power equipment	
LMTGN2004B	Work in a team environment	
MEM05004C	Perform routine oxy acetylene welding	
MEM05007C	Perform manual heating and thermal cutting	
MEM05008C	Perform advanced manual thermal cutting, gouging and shaping	MEM05007C
MEM05012C	Perform routine manual metal arc welding	
MEM05050B	Perform routine gas metal arc welding	
MEM07001B	Perform operational maintenance of machines/equipment	MEM18001C
MEM09002B	Interpret engineering drawing	



<b>Unit code</b>	<b>Unit title</b>	<b>Prerequisites</b>
MEM18005B	Perform fault diagnosis, installation and removal of bearings	MEM09002B MEM12023A MEM18001C MEM18002B MEM18003C MEM18006C MEM18055B
MEM18008B	Balance equipment	MEM09002B MEM12023A MEM18001C MEM18002B MEM18003C MEM18006C MEM18055B
MEM18009B	Perform levelling and alignment of machines and engineering components	MEM09002B MEM12023A MEM18001C MEM18002B MEM18003C MEM18006C MEM18055B
MEM18018C	Maintain pneumatic system components	MEM09002B MEM12023A MEM18001C MEM18002B MEM18003C MEM18006C MEM18055B
MEM18019B	Maintain pneumatic systems	MEM09002B MEM12023A MEM18001C MEM18002B MEM18003C MEM18006C MEM18018C MEM18055B
MEM18049B	Disconnect/reconnect fixed wire equipment up to 1000v	MEM09002B MEM10002B MEM12002B MEM18001C

<b>Unit code</b>	<b>Unit title</b>	<b>Prerequisites</b>
	ac and 1500v dc	
MEM18055B	Dismantle, replace and assemble engineering components	MEM09002B MEM12023A MEM18001C MEM18002B
MSACMC210A	Manage the impact of change on own work	
MSACMC410A	Lead change in a manufacturing environment	
MSACMS200A	Apply competitive manufacturing practices	
MSACMS201A	Sustain process improvements	
MSACMS400A	Implement a competitive manufacturing system	
MSACMS401A	Ensure process improvements are sustained	
MSACMT220A	Apply quick changeover procedures	
MSACMT221A	Apply Just in Time (JIT) procedures	
MSACMT230A	Apply cost factors to work practices	
MSACMT231A	Interpret product costs in terms of customer requirements	
MSACMT240A	Apply 5S procedures in a manufacturing environment	
MSACMT250A	Monitor process capability	
MSACMT260A	Use planning software systems in manufacturing	

<b>Unit code</b>	<b>Unit title</b>	<b>Prerequisites</b>
MSACMT261A	Use SCADA systems in manufacturing	
MSACMT270A	Use sustainable energy practices	
MSACMT280A	Undertake root cause analysis	
MSACMT281A	Contribute to the application of a proactive maintenance strategy	
MSACMT421A	Facilitate a Just in Time (JIT) system	
MSACMT430A	Improve cost factors in work practices	
MSACMT432A	Analyse manual handling processes	
MSACMT440A	Lead 5S in a manufacturing environment	
MSACMT450A	Undertake process capability improvements	MSACMT452A
MSACMT451A	Mistake proof a production process	
MSACMT452A	Apply statistics to processes in manufacturing	
MSACMT460A	Facilitate the use of planning software systems in manufacturing	MSACMT260A
MSACMT461A	Facilitate SCADA systems in a manufacturing team or work area	MSACMT261A
MSACMT481A	Undertake proactive maintenance analyses	
MSACMT482A	Assist in implementing a proactive maintenance	

Unit code	Unit title	Prerequisites
	strategy	
MSAENV472B	Implement and monitor environmentally sustainable work practices	
TAEASS401A	Plan assessment activities and processes	
TAEASS402A	Assess competence	

## GROUP B

Other Cotton Ginning units that are available at Certificates IV (maximum 4) or V (maximum 1)
Other TCF Training Package units that are available at Certificates III (maximum 1), IV (maximum 4) and V (maximum 1)
Units from other endorsed Training Packages and accredited courses at Certificates III (maximum 1), IV (maximum 4) and V (maximum 1)