

CS50 Maintenance Technician

Disclaimer

These Occupational Frameworks and Skill Profiles have been developed as workforce planning, occupational mapping and skills reference resources for the Australian textile, clothing and footwear (TCF) industry. They are intended to describe the typical functions, responsibilities, skills and capabilities associated with occupations across the industry.

These documents are not intended to replace or override industrial instruments or employment arrangements, including awards, enterprise agreements, employment contracts, position descriptions, classification structures, licensing or regulatory requirements, or other statutory obligations. Where differences arise, the relevant industrial, legislative or regulatory requirements take precedence. The Skill Profiles should be used as complementary reference documents to support workforce planning, career development, training and skills recognition.

1. Job role

TCF sub-sector	Cross-sector
Job role	CS50 Maintenance Technician
Job role description	Maintains, repairs and optimises production and processing machinery and equipment across TCF environments to ensure reliable and efficient operation. In the TCF industries, where systems range from garment and footwear production to textile processing and automated laundry plants, the Maintenance Technician supports mechanical, electrical, pneumatic and automated systems, ensuring operational continuity, safety compliance and consistent equipment performance.
Performance expectations	• Minimising equipment downtime and production disruption. • Ensuring safe and compliant operation of machinery and plant. • Conducting preventative maintenance schedules. • Responding promptly to breakdowns and faults. • Maintaining accurate maintenance documentation. • Supporting continuous improvement of equipment performance. • Maintaining reliability of automation and control systems. • Supporting efficient use of equipment and resources. • Identifying recurring faults and improvement opportunities. • Ensuring compliance with WHS and operational standards.
Specialisation	Mechanical systems, electrical systems, pneumatics and hydraulics, automation and control systems, equipment optimisation.
Application in other TCF sectors	• Apparel production supporting sewing, cutting and finishing equipment maintenance. • Textile manufacturing supporting processing, weaving, knitting and finishing machinery. • Footwear production supporting assembly and automated machinery.

	• Leather goods production supporting cutting, stitching and finishing systems. • Dry cleaning and laundry services supporting washers, dryers, conveyors and plant systems. • Technical textile and specialty services supporting controlled production environments. • Manufacturing and processing industries supporting industrial maintenance functions.
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2. Key tasks and critical work functions

Key tasks	• Conducting routine preventative maintenance activities. • Diagnosing mechanical, electrical and automation faults. • Repairing or replacing worn or damaged components. • Calibrating and adjusting machinery and equipment. • Maintaining maintenance logs, schedules and documentation. • Coordinating with production and supervisory staff. • Ensuring compliance with safety and maintenance procedures. • Supporting installation and commissioning of equipment.
Critical work functions	• Rapid and accurate fault diagnosis and repair. • Safe isolation and maintenance of equipment. • Maintaining equipment reliability and uptime. • Adhering to preventative maintenance schedules. • Ensuring compliance with WHS and electrical safety standards. • Supporting uninterrupted production operations. • Escalating complex issues to specialist or engineering support.

3. Technical skills

Mechanical systems knowledge	Maintaining mechanical components and systems in production equipment.
Electrical systems troubleshooting	Diagnosing and repairing electrical faults in machinery if appropriately qualified.
Pneumatic and hydraulic systems	Maintaining pressure-based and fluid systems.
Automation and control systems	Supporting Programmable Logic Controllers (PLCs), sensors and automated production systems.
Preventative maintenance systems	Planning and executing maintenance schedules.
Machine calibration	Adjusting equipment for optimal performance.
Diagnostic tools and equipment	Using tools to identify faults and system issues.
Safety isolation procedures	Applying lockout/tagout and safe maintenance practices.
Maintenance management systems	Using Computerised Maintenance Management Systems (CMMS) or digital systems for maintenance tracking.
Technical documentation	Maintaining accurate service records and reports.

4. Generic Skills

Problem solving	Diagnosing and resolving equipment faults efficiently.
Attention to detail	Ensuring accuracy in repairs and adjustments.
Communication	Coordinating effectively with production and maintenance teams.
Time management	Prioritising urgent breakdowns and routine tasks.
Analytical thinking	Interpreting equipment performance data.
Safety awareness	Maintaining strict adherence to safety protocols.

5. Emerging skills

Emerging skills	- Supporting automation and smart production systems. - Using digital CMMS. - Applying predictive maintenance technologies. - Using sensor-based monitoring and diagnostics. - Supporting energy efficiency and optimisation systems. - Working with integrated production and control systems.
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6. VET Qualifications and Skill Sets

Entry-level preparation	Any of or equivalent to in a relevant trade area: - MEM30219 Certificate III in Engineering - Mechanical Trade - UEE30820 Certificate III in Electrotechnology Electrician.
Advanced development	Any of or equivalent to in a relevant trade area: - MEM40119 Certificate IV in Engineering - UEE40420 Certificate IV in Electrical - Instrumentation or equivalent.

7. Job progression

Possible job progression	Maintenance Assistant → Maintenance Technician → Senior Technician → Maintenance Supervisor → Engineering Manager.
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8. Classification

Australian Qualifications Framework	AQF Level 3 (trade based).
Australian Bureau of Statistics (ABS) Skill Levels	Skill Level 3.
Open Source Classification of Occupations for Australia (OSCA)	332231 Fitter. [General]. Alternative OSCA occupational title Maintenance Fitter.



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