

SSBIO06 Textile Production Technician - Acute and Clinical Care Textiles

1. Job role

TCF sub-sector	Biomedical Textiles
Functional area	Manufacturing - Acute and Clinical Care Textile Production
Job role	SSBIO06 Textile Production Technician - Acute and Clinical Care Textiles
Job role description	Operates specialised textile manufacturing processes to produce acute and clinical care textile products, ensuring consistency, sterility readiness, durability and compliance with strict clinical and regulatory standards. In the Australian biomedical textiles sector, the Textile Production Technician plays a critical role in the manufacture of products such as surgical gowns, drapes, wound care textiles, pressure care materials and infection control fabrics. These products must meet stringent requirements for barrier performance, durability, comfort and hygiene. The role involves operating and monitoring textile machinery, managing materials and production workflows, and ensuring that outputs meet specifications for clinical use. The technician works within controlled manufacturing environments and must adhere to ISO standards, TGA requirements and quality assurance systems. The position interfaces with quality technicians, cleanroom operators, sterilisation teams and product development staff to ensure products are safe, compliant and suitable for use in healthcare environments.
Performance expectations	- Producing textile products that meet clinical and regulatory specifications - Maintaining consistency and quality across production runs - Ensuring materials are handled in accordance with hygiene and contamination control standards - Minimising defects, waste and rework - Maintaining traceability of materials and production batches - Supporting production efficiency and throughput targets - Following WHS, infection control and clean manufacturing procedures - Maintaining accurate production and quality records

Specialisation	Clinical textile production, barrier fabrics, infection control textiles, wound care materials, controlled environment manufacturing
Application in other TCF sectors	• Medical device manufacturing • Pharmaceutical production environments • Defence and protective textile manufacturing • Advanced technical textile production • Cleanroom-based manufacturing industries

2. Key tasks and critical work functions

Key tasks	• Operating textile production machinery and equipment • Preparing and loading raw materials for production • Monitoring production processes and adjusting machine settings • Inspecting textile outputs for defects and compliance • Maintaining cleanliness of equipment and work areas • Recording production data and batch information • Following standard operating procedures and quality requirements • Collaborating with quality and technical teams
Critical work functions	• Ensuring textile products meet clinical safety and performance standards • Maintaining consistency in fabric quality and characteristics • Preventing contamination during production processes • Supporting traceability of materials and finished products • Ensuring compliance with ISO and regulatory frameworks • Maintaining production efficiency without compromising quality • Supporting integration with downstream sterilisation and packaging processes

3. Technical skills

Textile machinery operation	Operating weaving, knitting, nonwoven or finishing equipment
Process monitoring	Observing and controlling production parameters
Material handling	Managing clinical-grade textile materials
Quality inspection	Identifying defects and ensuring compliance
Batch control	Maintaining traceability of production runs
Equipment maintenance	Performing basic maintenance and cleaning
Documentation	Recording production and quality data
Safety and hygiene	Applying infection control and WHS practices

4. Generic Skills

Attention to detail	Ensuring precision in textile production
Communication	Working with production and quality teams

Problem solving	Addressing process and quality issues
Teamwork	Supporting integrated manufacturing operations
Time management	Meeting production schedules
Adaptability	Responding to changing production requirements
Professionalism	Maintaining compliance and standards

5. Emerging skills

Emerging skills	- Advanced nonwoven and smart textile manufacturing - Automation and robotics in textile production - Data-driven process optimisation - Sustainable and biodegradable medical textiles - Integration with digital manufacturing systems - Enhanced contamination control technologies
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6. VET Qualifications and Skill Sets

Entry-level preparation	MSA30107 Certificate III in Process Manufacturing or equivalent
Advanced development	MSM40116 Certificate IV in Process Manufacturing or equivalent

7. Job progression

Possible job progression	Production Operator → Textile Production Technician → Senior Technician → Production Supervisor → Operations Manager
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8. Classification

Australian Qualifications Framework	Level 3-5
Australian Bureau of Statistics (ABS) Skill Levels	Skill Level 3
Open Source Classification of Occupations for Australia (OSCA)	Textile Production Technician - Biomedical Textiles



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