

SSTRR03 Remanufacturing Production Operator

1. Job role

TCF sub-sector	Textile Recycling and Remanufacturing
Functional area	Recycling and Remanufacturing Operations
Job role	SSTRR03 Remanufacturing Production Operator
Job role description	Operates remanufacturing processes that convert recovered textile fibres and materials into new products, ensuring quality, consistency and compliance with production and sustainability requirements. This role is identified as a core occupation within the Mechanical Recycling and Remanufacturing function in the national occupational structure. It is responsible for transforming processed fibres and reclaimed textile materials into new products such as nonwoven fabrics, insulation materials, composite panels, yarns and other remanufactured textile goods. The role involves operating machinery such as carding systems, needle punching equipment, bonding systems, spinning equipment or other remanufacturing technologies. The operator must ensure correct material feed, process settings and production parameters to achieve consistent product quality and performance. The position works closely with fibre processing operators, quality assurance personnel, maintenance technicians and supervisors to ensure efficient workflow, minimal waste and high-quality outputs aligned with circular economy objectives.
Performance expectations	• Operating shredding and fibre processing machinery safely and efficiently • Producing fibre outputs that meet quality and specification requirements • Maximising material recovery and minimising waste • Maintaining consistency in fibre size, composition and quality • Monitoring machine performance and adjusting settings as required • Preventing contamination and cross-material mixing • Maintaining accurate production and batch records • Following WHS and environmental procedures • Supporting continuous improvement in recycling processes

Specialisation	Textile shredding, fibre opening, mechanical recycling, material recovery, fibre quality optimisation
Application in other TCF sectors	Waste management, plastics recycling, paper recycling, nonwoven manufacturing, composite materials production

2. Key tasks and critical work functions

Key tasks	- Feeding sorted textile materials into shredding and fibre processing equipment - Operating shredders, cutters, granulators and fibre opening machinery - Monitoring machine parameters including speed, load and throughput - Adjusting settings to achieve required fibre size and quality - Removing contaminants and managing material flow - Inspecting processed fibres for consistency and quality - Performing basic equipment cleaning and maintenance - Recording production data and batch traceability information - Following operational, safety and environmental procedures
Critical work functions	- Ensuring processed fibres meet downstream processing requirements - Maximising fibre recovery and minimising material loss - Preventing contamination of fibre streams - Maintaining consistent fibre quality and characteristics - Ensuring safe operation of high-risk machinery - Supporting efficient material flow across processing stages - Maintaining traceability of materials and outputs - Contributing to circular economy and sustainability outcomes

3. Technical skills

Machine operation	Operating shredding, cutting and fibre processing equipment
Material handling	Managing textile feedstock and processed fibres
Process control	Monitoring and adjusting processing parameters
Fibre quality assessment	Evaluating fibre size, consistency and contamination
Equipment maintenance	Performing cleaning and minor maintenance tasks
Data recording	Maintaining production and traceability records
Quality awareness	Understanding downstream processing requirements
Safety practices	Applying WHS procedures for machinery operation

4. Generic Skills

Attention to detail	Ensuring fibre quality and process consistency
Observation skills	Monitoring equipment and material flow

Communication	Working with team members and supervisors
Problem solving	Identifying and resolving processing issues
Teamwork	Supporting integrated recycling operations
Time management	Maintaining throughput and production targets
Adaptability	Responding to varied material inputs
Reliability	Maintaining consistent operational performance

5. Emerging skills

Emerging skills	- Automated and AI-assisted sorting and shredding systems - Advanced fibre recovery and separation technologies - Digital process monitoring and data analytics - Sustainable and low-impact processing methods - Integration with advanced nonwoven and composite manufacturing - Circular economy optimisation and material traceability systems
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6. VET Qualifications and Skill Sets

Entry-level preparation	Certificate II or III in Manufacturing, Process Operations or Recycling
Advanced development	Certificate IV in Manufacturing, Production Technology or Process Operations

7. Job progression

Possible job progression	Processing Assistant → Fibre Processing Operator → Senior Operator → Production Team Leader → Production Manager
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8. Classification

Australian Qualifications Framework	Level 2-4
Australian Bureau of Statistics (ABS) Skill Levels	Skill Level 4-3
Open Source Classification of Occupations for Australia (OSCA)	Textile Shredding / Fibre Processing Operator - Recycling and Remanufacturing



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