

SSCAR09 Yarn Production and Processing Operator

1. Job role

TCF sub-sector	Carpet and Textile Floor Covering Manufacturing
Functional area	Yarn Production and Preparation
Job role	SSCAR09 Yarn Production and Processing Operator
Job role description	Operates and monitors machinery used in the production, processing and preparation of yarn for carpet manufacturing, including fibre processing, spinning, twisting, winding and packaging. In Australia's carpet manufacturing industry, the Yarn Production and Processing Operator plays a critical upstream role in ensuring yarn quality, consistency and availability for tufting operations. The operator manages fibre inputs, machine settings and process conditions to produce yarn that meets required strength, colour and performance specifications. The role requires coordination with dyeing, quality control and tufting functions to ensure that yarn characteristics align with production requirements in a highly automated and quality-driven manufacturing environment.
Performance expectations	- Producing yarn that meets specification for strength, consistency and quality - Maintaining consistent yarn count, twist and tension - Operating yarn production machinery safely and efficiently - Minimising waste, breakages and defects - Monitoring machine performance and process conditions - Ensuring correct material usage and traceability - Recording production and quality data accurately - Following WHS and operational procedures
Specialisation	Synthetic yarn production, wool blending, spinning systems, twisting and winding operations, automated yarn processing systems
Application in other sectors	- Textile and apparel yarn production - Synthetic fibre processing industries - Industrial textile manufacturing - Automotive textile production - Any fibre-to-yarn conversion processes

2. Key tasks and critical work functions

Key tasks	- Operating fibre processing and spinning machinery - Feeding raw materials into production systems - Monitoring yarn formation and quality
-----------	---

	• Adjusting machine settings (speed, tension, twist) • Replacing bobbins and managing yarn winding • Inspecting yarn for defects • Recording production data and machine performance • Cleaning and maintaining yarn production equipment
Critical work functions	• Ensuring consistent yarn quality and specifications • Maintaining continuous yarn production flow • Preventing yarn breakages and defects • Supporting efficient use of raw materials • Maintaining alignment with downstream tufting requirements • Ensuring safe operation of machinery • Supporting production scheduling and supply continuity

3. Technical skills

Yarn production machinery operation	Operating spinning, twisting and winding equipment
Fibre handling	Managing raw fibre inputs and blends
Process control	Adjusting yarn parameters such as tension, twist and speed
Quality inspection	Identifying yarn defects and inconsistencies
Machine setup	Configuring production settings for different yarn types
Maintenance and troubleshooting	Performing routine checks and resolving minor faults
Material handling	Handling yarn packages and raw materials safely
Production documentation	Recording process data and output

4. Generic Skills

Attention to detail	Ensuring yarn consistency and quality
Problem solving	Responding to machine and process issues
Time management	Maintaining production flow and meeting targets
Technical aptitude	Working with automated yarn systems
Communication	Coordinating with dyeing and tufting teams
Teamwork	Working effectively in production environments
Safety awareness	Applying WHS and material handling procedures

5. Emerging skills

Emerging skills	• Advanced fibre blending and synthetic materials • Automated yarn monitoring systems • Data-driven process optimisation • Integration with digital production control systems • Sustainable fibre sourcing and recycling technologies • Energy-efficient yarn production systems
-----------------	--

6. VET Qualifications and Skill Sets

Entry-level preparation	MSM20116 Certificate II in Process Manufacturing or equivalent
Advanced development	MSM30116 Certificate III in Process Manufacturing or equivalent

7. Job progression

Possible job progression	Production Assistant → Yarn Operator → Yarn Production and Processing Operator → Senior Operator → Team Leader → Production Supervisor
--------------------------	--

8. Classification

Australian Qualifications Framework	Level 2-3
Australian Bureau of Statistics (ABS) Skill Levels	Skill Level 4
Open Source Classification of Occupations for Australia (OSCA)	Textile Production Worker – Yarn Production and Processing



Skills Insight is a Jobs and Skills Council funded by the Australian Government Department of Employment and Workplace Relations.