

SSCAR08 Dyeing and Colour Control Technician

1. Job role

TCF sub-sector	Carpet and Textile Floor Covering Manufacturing
Functional area	Yarn Production and Preparation
Job role	SSCAR08 Dyeing and Colour Control Technician
Job role description	Operates and controls dyeing processes and colour systems to ensure yarn and carpet products meet required colour specifications and consistency standards. In Australia's carpet manufacturing industry, the Dyeing and Colour Control Technician is responsible for managing dyeing operations, colour matching, and process control to achieve consistent and accurate colour outcomes. This includes working with dyeing machinery, chemical formulations, and colour measurement systems. The role works closely with yarn production, quality, and tufting teams to ensure colour consistency across batches and production runs in a highly automated and quality-driven environment.
Performance expectations	- Producing dyed yarn and materials that meet colour specifications - Maintaining colour consistency across batches - Operating dyeing equipment safely and efficiently - Minimising colour variation and defects - Monitoring dyeing processes and chemical usage - Maintaining accurate colour records and traceability - Supporting production efficiency and quality standards - Following WHS and environmental procedures
Specialisation	Batch dyeing, continuous dyeing systems, colour matching systems, dye chemistry, automated colour control technologies
Application in other sectors	- Textile and apparel dyeing operations - Synthetic fibre colouring - Industrial textile manufacturing - Automotive textile production - Chemical processing industries

2. Key tasks and critical work functions

Key tasks	- Preparing dye baths and chemical formulations - Operating dyeing machinery and equipment - Monitoring colour development and process conditions - Matching colours to specifications using measurement tools
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	• Adjusting dyeing parameters (temperature, time, concentration) • Sampling and testing dyed materials • Recording process and colour data • Maintaining dyeing equipment and work areas
Critical work functions	• Ensuring accurate colour matching and consistency • Maintaining stable dyeing processes • Preventing colour defects and variation • Supporting efficient use of dyes and chemicals • Maintaining compliance with environmental and safety standards • Ensuring traceability of colour batches • Supporting downstream production quality

3. Technical skills

Dyeing process operation	Operating dyeing machinery and systems
Colour matching	Using instruments and visual assessment to match colours
Chemical handling	Preparing and managing dyes and chemical formulations
Process control	Adjusting parameters such as temperature and timing
Quality inspection	Assessing colour consistency and identifying defects
Colour measurement systems	Using spectrophotometers and related tools
Maintenance and troubleshooting	Maintaining equipment and resolving issues
Documentation	Recording dyeing and colour data

4. Generic Skills

Attention to detail	Ensuring precise colour matching and consistency
Analytical thinking	Interpreting colour data and process variables
Problem solving	Resolving dyeing and colour issues
Communication	Coordinating with production and quality teams
Time management	Managing dyeing cycles and schedules
Teamwork	Working across manufacturing functions
Safety awareness	Applying WHS and chemical safety procedures

5. Emerging skills

Emerging skills	• Digital colour management systems • Automated dye dosing and control technologies • Sustainable dyeing practices and water reduction • Data-driven process optimisation • Integration with ERP and production systems • Advanced colour analytics and AI-assisted matching
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6. VET Qualifications and Skill Sets

Entry-level preparation	MSL30122 Certificate III in Laboratory Skills or equivalent
Advanced development	MSL50122 Diploma of Laboratory Technology or equivalent

7. Job progression

Possible job progression	Production Operator → Dyeing Technician → Dyeing and Colour Control Technician → Senior Technician → Quality or Production Supervisor
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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 Dyeing and Colour Control Technician



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