



Australian Government

Department of Education, Employment and Workplace Relations

LMTEW2014A Perform machine setting and operational maintenance

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge required to set machines for product changes, reset them after general fibre related stoppages and perform minor maintenance of machinery.

Application of the Unit

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This unit applies to the setting up of machines for product change and scheduled and unscheduled operational maintenance and machine setup of machines. Work may involve supervision of a production section of the operation and may involve responsibility for a number of employees. Work may be conducted in a variety of environments, such as:

- operational workplace activities
- hazardous, controlled or exposed conditions

Variations in extent of operational maintenance and machine setup dependent on equipment used and workplace arrangements in each enterprise

Work may be conducted in small to large scale enterprises and may involve individual and team activities.

The application of this unit is according to OHS practices of the enterprise and workplace practices, which may include:

- requirements prescribed by legislation, awards, agreements and conditions of employment
- standard operating procedures
- work instructions
- oral, written and visual communication
- quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output
- housekeeping
- tasks related to environmental protection, waste disposal, pollution control and recycling

This unit requires the application of skills associated with problem solving to identify machine operational faults, as well as the application of the knowledge of the technology used in textile production. This unit also requires an ability to document machine settings and maintenance work.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Determine required specifications	1.1 Required specifications for raw materials, product and machine are identified and interpreted for application in the testing and setting up process
2 Set machine	2.1 Machine is cleaned and set in accordance with raw material and product specifications and machine manufacturer and workplace procedures 2.2 During setting and testing, condition of work area around machine is maintained to meet workplace and OHS practices
3 Conduct sample or trial runs and readjust	3.1 Machine operation is checked to ensure correct operation 3.2 Where appropriate, a sample is produced and checked for conformance with workplace requirements and product standards and further adjustment is made until sample meets specifications
4 Investigate, identify and rectify machine operating problems	4.1 Appropriate diagnostic procedures and tests are used to locate and identify faults in the machine 4.2 Correct hand tools and measuring equipment are chosen and use to rectify problems 4.3 Major problems in machine are identified and reported 4.4 Minor problems, which are within the operator's skill level, are identified and adjustments or repairs are assessed 4.5 Environmental requirements and procedures concerned with waste, pollution and recycling of materials are correctly applied at all stages of the process
5 Rectify minor machine faults	5.1 Adjustments or corrections are assessed consistent with operator's skill level 5.2 Machine is checked to ensure correct operation 5.3 Correct hand tools and measurement equipment are chosen and used to correct problem
6 Communicate information	6.1 Records and other documentation of setting and maintenance work are clearly and accurately completed

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Demonstrates knowledge of:

- principles of operating machines and associated equipment
- technical specifications and repair manuals
- principles and techniques of machine setting and adjustment
- typical fault conditions and relevant fault finding procedures
- maintenance and repair processes and techniques
- workplace procedures and maintenance planning
- workplace stores procedures and procurement system
- relevant product quality standards
- safety and environmental aspects of relevant workplace processes
- general housekeeping policies and procedures
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- practices for recording and reporting

Demonstrates skills to:

- locate and interpret technical data
- set and operate machines
- test machines and analyse samples
- use relevant hand tools
- use lubricants, sealants, chemicals, and cleaning agents, and dispose of waste products
- maintain work area
- document and transfer information
- read, interpret, and follow information on work specifications , standard operating procedures and work instructions, and other reference material
- maintain accurate records
- communicate within the workplace
- sequence operations
- meet specifications
- clarify and check task-related information
- carry out work according to OHS practices

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence to be considered	<p>Demonstrates skills and knowledge to:</p> <ul style="list-style-type: none">• comply with all relevant safety requirements; including isolation or shutdown of machines, use of safety and lockout devices, and attachment of appropriate warning tags• interpret work orders• interpret raw materials, product, and machine specifications needed for machine setting and maintenance• perform normal testing, setting, and maintenance of machines• investigate improper operation of machines and identify and rectify operating problems• conduct sample runs of machines and check products against required standards• perform operator maintenance of work area• document and communicate work related information including reporting of non-conforming outcomes and other problems
Consistency in performance	<p>Consistently applies skills and knowledge when:</p> <ul style="list-style-type: none">• organising work• completing tasks• identifying improvements• using workplace practices• using OHS practices• recording and reporting accidents and incidents• assessing operational readiness of equipment used and work processes• recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions• completing work systematically with attention to detail without damage to goods and equipment
Resource implications	<p>Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.</p>
Context for assessment	<p>Assessment may occur on the job or in an appropriately simulated environment.</p>
Interdependent assessment	<p>This unit may be assessed independently or in combination with other relevant units.</p>

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the Performance Criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

Legislative/regulatory requirements	All work must comply with relevant Federal and State or Territory legislative or regulatory requirements.
Machine may include	<p>A range of machines and equipment which may be microprocessor or computer controlled, including the following:</p> <ul style="list-style-type: none"> • blending and carding • combing • gilling • finishing • bale pressing • scouring • superwash • backwash • carbonising
Materials, hand tools and equipment may include	<ul style="list-style-type: none"> • cleaning equipment • detergents and other chemicals • hand and power tools normally applicable to the tasks • hand trolleys • pallet trucks
OHS practices	<p>OHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and may include:</p> <ul style="list-style-type: none"> • manual handling techniques • standard operating procedures • personal protective equipment • safe materials handling • taking of rest breaks • ergonomic arrangement of workplaces • following marked walkways • safe storage of equipment • housekeeping • reporting accidents and incidents • other OHS practices relevant to the job and enterprise

Unit Sector(s)

Sector Textile Production