Title	Operate an ink or ribbon transfer code printing system for tissue products		
Level	2	Credits	4

knowledge of the operation of an ink or ribbon transfer code	Purpose	printing system; operate an ink or ribbon transfer code printing system for tissue products; and monitor and control the automated performance of an ink or ribbon transfer code
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Classification	Wood Fibre Manufacturing > Tissue Converting
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Available grade	Achieved
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Guidance Information

Legislation and references
 Legislation, regulations and/or industry sta

Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:

- Health and Safety at Work Act 2015
- Resource Management Act 1991.

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

2 Definitions

Ink or ribbon transfer code printing system refers to print and apply label application systems and ink jet coding systems.

Tissue products refer to bathroom tissue, towel, napkins, and facial tissue. Worksite policies and procedure refers to documented policies and to documented or other directions provided to staff. These include but are not limited to – ways of managing health and safety, environmental considerations, quality, and production, and must conform to legislation. Examples include – standard operating procedures, company health and safety plans, on-site briefings, and supervisor's instructions.

3 Range

Code printing systems include – ink jet coding, print and apply label application. Evidence of one is required.

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4 Assessment information

Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, worksite policies and procedures and legislative requirements. This includes the knowledge and use of worksite specific equipment, procedures, and practices. This unit standard may be assessed in the workplace using naturally occurring evidence or in a simulated environment that demands performance equivalent to that required in the workplace. All activities and evidence must be in accordance with worksite policies and procedures.

This unit standard includes replenishing of raw materials in the ink or ribbon transfer code printing system.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the operation of an ink or ribbon transfer code printing system.

Performance criteria

- 1.1 The operational capabilities of the ink or ribbon transfer code printing system are described.
- 1.2 The purpose of the operating components of the ink or ribbon transfer code printing system is explained.

Range

operating components may include but are not limited to — print and apply label application systems — print engine and LCD (Liquid Crystal Display) control panel, applicator control panel, print head, applicator arm and head, air regulators, applicator mainframe, supply reel, take-up reel, air assist, photo-electric eyes, conveyor systems, barcode software programming system. Ink Jet Coding systems — umbilic, stepper motor, vacuum/pressure pump, peltier condenser, cannon, electrodes, tap, gutter, cleaning fluids, inks, additives wash station, main control panel.

1.3 Hazards associated with the ink or ribbon transfer code printing system and the role of relevant protective equipment and safety features are explained.

Range

hazards may include but are not limited to – pinch points, moving parts, automated processes, sharp edges, cleaning chemicals, additives, noise, compressed air.

evidence of a minimum of five is required.

safety features may include but are not limited to – energy isolation procedures, lockouts, emergency stops, guards.

1.4 The consequences of non-conformance with worksite policies and procedures are explained.

Outcome 2

Operate an ink or ribbon transfer code printing system for tissue products.

Performance criteria

2.1 Safe work practices associated with operating an ink or ribbon transfer code printing system are demonstrated.

Range practices may include but are not limited to – energy isolation procedures, lock outs, emergency stops, machine guarding,

wearing of appropriate safety equipment.

- The ink or ribbon transfer code printing system is started up, configured, operated, replenished, stopped, and shut down.
- 2.3 Product quality is achieved by setting and/or adjustment of the system.
- 2.4 Equipment faults, malfunctions, and damaged or worn-out plant are reported.

Range equipment faults may be – mechanical, electrical or pneumatic.

- 2.5 The ink or ribbon transfer code printing system and work area are cleaned and prepared for the next use.
- 2.6 Incoming raw materials to be used are assessed against specification and action is taken for non-conforming products.

Outcome 3

Monitor and control the automated performance of an ink or ribbon transfer code printing system.

Performance criteria

- 3.1 Productivity and quality is maintained by monitoring performance and adjustment of control parameters.
 - Range quality requirements may include but are not limited to product

barcode scanner system, hand-held barcode scanner, barcode verifier, data acquisition scanning system, visual inspection.

- 3.2 Waste is minimised and recycled.
- 3.3 Rejection of any out of specification media, ribbon materials, ink, and additives is carried out.

Planned review date 31 December 2028	
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 November 2003	31 December 2012
Rollover and Revision	2	26 January 2007	31 December 2012
Review	3	25 January 2008	31 December 2012
Review	4	21 July 2011	31 December 2025
Review	5	29 June 2023	N/A

Consent and Moderation Requirements (CMR) reference	0013
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This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council <u>qualifications@hangaarorau.nz</u> if you wish to suggest changes to the content of this unit standard.