

Demonstrate knowledge of, calculate requirements for, and handle and store substrates used for sheet-fed printing

Level 3

Credits 5

Purpose People credited with this unit standard are able to: demonstrate knowledge of substrates used for sheet-fed printing in the workplace; calculate substrate requirements in accordance with workplace practices; and handle and store substrates used for sheet-fed printing.

Subfield Printing

Domain Printing - Sheet-Fed

Status Registered

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Entry information Open.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) Competenz

Accreditation and Moderation Action Plan (AMAP) reference 0005

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Special note

- 1 All workplace practices must meet any applicable and recognised codes of practice, and documented workplace health, safety, and environmental procedures for personal, product, workplace health, safety, and environmental matters, and the obligations required under current law including the Health and Safety in Employment Act 1992, Hazardous Substances and New Organisms Act 1996, Privacy Act 1993, Copyright Act 1994, and their subsequent amendments.
- 2 **Definition**
workplace practices refer to the documented procedures for the machine and/or workplace.

Elements and performance criteria

Element 1

Demonstrate knowledge of substrates used for sheet-fed printing in the workplace and calculate substrate requirements in accordance with workplace practices.

Range any of – papers, boards, other.

Performance criteria

1.1 Substrates used for sheet-fed printing are identified and those used in the workplace are described in terms of their characteristics.

Range characteristics may include but are not limited to – grammage, calliper, bulk value, smoothness, opacity, coatings, grain direction, absorbency, pH, strength, colour.

1.2 Substrate characteristics which are likely to cause printing problems are identified and the problems listed.

1.3 Major raw materials used in the manufacture of substrates used for sheet-fed printing are listed.

1.4 Processes used to manufacture substrates used for sheet-fed printing are described.

Range any of – paper making, board making, other.

1.5 Paper sizes developed by the International Standards Organisation (ISO) are listed and their principles and measurements are explained.

1.6 Calculations are used to determine the substrate requirements for printing.

Element 2

Handle and store substrates used for sheet-fed printing.

2.1 Effects of workplace conditions on substrates are described.

Range humidity, static, airflow, temperature.

2.2 Handling and storage of substrates are carried out in accordance with workplace practices.

Range (dependent on substrate used)
handling – clean working environment, clean hands, carrying methods, stacking, knocking-up, grain direction, working side, avoidance of physical damage, static electricity, clinging edges, uneven stock, uneven spray powder coating, spray powder, air between sheets;
storage – light, temperature, air-flow control, relative humidity, age (stock rotation), ease of access.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact Competenz info@competenz.org.nz if you wish to suggest changes to the content of this unit standard.