

Operate the rotational moulding machine

Level 2

Credits 6

Purpose People credited with this unit standard are able to demonstrate knowledge of the construction of a rotational moulding machine, and operate a rotational moulding process that has been pre-set.

Subfield Plastics Processing Technology

Domain Rotational Moulding

Status Registered

Status date 20 January 1999

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Entry information Recommended: Unit 16116, *Perform basic process operations for rotational moulding*; Unit 23129, *Process and use plastics materials*; or demonstrate equivalent knowledge and skills.

Accreditation Evaluation of documentation by NZQA and industry.

Standard setting body (SSB) Plastics and Materials Processing Industry Training Organisation Incorporated

Accreditation and Moderation Action Plan (AMAP) reference 0134

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

Special notes

- 1 All work practices must meet enterprise health and safety requirements.
- 2 *Enterprise* means an organisation where training and/or assessment is taking place, and/or where the trainee is employed.
- 3 *Enterprise procedure* is defined as actions which comply with the policies, systems, and directives in a particular enterprise. Enterprise procedure must comply with the requirements of the Health and Safety in Employment Act 1992, and subsequent amendments.

Deleted: 4. Plastics and Materials Processing Industry Training Organisation unit designation is RP2.¶

Elements and performance criteria

Element 1

Demonstrate knowledge of the construction of a rotational moulding machine.

Performance criteria

1.1 Rotational moulding machine components and ancillary equipment are identified and their purpose is described.

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Range components – controls, safety features, heating system, cooling system, drive, rotation system, frame.
ancillary equipment – lifting equipment

1.2 Machine services are identified using enterprise equipment, and their purpose and controls are described.

Range machine services may include – electricity, water, compressed air, hydraulic oil, heating fuel.

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Element 2

Perform a rotational moulding process that has been pre-set.

Deleted: Operate

Performance criteria

2.1 Raw material for moulding is verified against job specification, and is prepared in accordance with enterprise procedures.

2.2 Work area is cleared and cleaned to alleviate contamination and to ensure safe operating conditions in accordance with enterprise requirements.

Range work area may include – pit, floors, stairs, platforms, ceiling, machine surfaces, ledges, intake and output areas, hand tools, materials storage areas.

2.3 Rotational moulding machine and ancillary equipment starting up is performed in accordance with enterprise procedure.

2.4 Rotational moulding machine and ancillary equipment shut down is performed in accordance with enterprise procedure.

2.5 Process operations are performed for complex products in accordance with enterprise procedures.

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Deleted: and quality inspection procedures are consistently applied,

Range process operations may include – product demoulding, product inspection, product jiggling, product finishing, production cycle preparation;

2.6 Consistently apply basic quality inspection procedures.

Deleted: complex products may include – double wall products, multiple shot products, products with moulded graphics, products with inserts, complex shaped products. Evidence is required for two different products.¶

Range: basic quality inspection procedures may include – shape, pin holing,
weigh the material, contamination, thickness testing

Please note

Providers must be accredited by the Qualifications Authority, 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 the Qualifications Authority 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 the Plastics and Materials Processing Industry Training Organisation Incorporated info@pampito.org.nz if you wish to suggest changes to the content of this unit standard.

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