

Service moulds for rotational moulding

Level 2

Credits 5

Purpose People credited with this unit standard are able to demonstrate knowledge of the construction of rotational moulds, and perform mould servicing.

Subfield Plastics Processing Technology

Domain Rotational Moulding

Status Registered

Status date 20 January 1999

Date version published ~~XX Month 20XX~~

Planned review date 31 December ~~2014~~

Entry information Open.

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.

Elements and performance criteria

Element 1

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4. *Industry terminology* is detailed in the Association of Rotational Moulders Glossary of Terms, available from the Association of Rotational Moulders (Australasia), 8/600 Sherwood Road, Sherwood, Queensland 4075, Australia.¶
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5. Plastics and Materials Processing Industry Training Organisation unit designation is RT2A.

Demonstrate knowledge of the construction of rotational moulds.

Performance criteria

- 1.1 Industry terminology is used correctly.
- 1.2 Standard mould components are identified using an enterprise mould, and their purpose is described.

Range mould components may include but not limited to – cavity, part line, venting system, clamping system, frame, lifting attachments, jacking points, air lines, temperature sensors, air amplifiers.

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- 1.3 Specialised mould features and their purpose are described.

Range mould features may include but not limited to – insulation, heat deflectors, heat pins, filling ports, transvectors, heating fins, insert holders, drop box, core pins, mould coatings, release agents.

- 1.4 The materials and manufacturing processes used for rotational mould construction are described.

Range materials – aluminium, bronze, nickel, mild steel, stainless steel; manufacturing processes – casting, fabricating, Computer Numerical Control (CNC) systems. Evidence is required for a basic understanding only.

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- 1.5 The requirement for and method of accommodating venting and product shrinkage within rotational moulds is explained.

Element 2

Perform mould servicing.

Range evidence is required for two moulds with different configurations.

Performance criteria

- 2.1 All moulding and mould contact surfaces are inspected for damage and wear, and results are reported in accordance with enterprise procedure.
- 2.2 Mould closing up procedures for storage are performed in accordance with enterprise requirements.

Range closing up procedures may include – external inspection, cleaning, cooling water removal, surface protection coating, application of anti-seize material, air lines, temperature sensing equipment.

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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