

NOTICE 833 OF 2001**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

PLASTICS MANUFACTURING

Registered by NSB 06, Manufacturing, Engineering and Technology, publishes the following unit standards-based qualifications for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purposes of the qualifications, and the titles and specific outcomes of the unit standards upon which qualifications are based. The full qualifications and unit standards can be accessed via the SAQA web-site at www.saga.co.za. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, 659 Pienaar street, Brooklyn, Pretoria.

Comment on the qualifications and unit standards should reach SAQA at the address **below and no later than 12 May 2001**. All correspondence should be marked **Standards Setting – SGB for Higher Education and Training** and addressed to

The Director: Standard Setting and Development
SAQA
Attention: Mrs S.Vasuthevan
Postnet Suite 248
Private Bag X06
Waterkloof
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or faxed to 012 – 346 5812



SAMUEL B.A. ISAACS
EXECUTIVE OFFICER

CORE AND ELECTIVE UNIT STANDARDS - PLASTICS MANUFACTURING**FIELD: MANUFACTURING ENGINEERING AND TECHNOLOGY****SUB-FIELD: MANUFACTURING AND ASSEMBLY – PLASTICS
MANUFACTURING****NQF LEVEL: 2****CREDITS**

	Level 2	Credits
Core	1. Monitor the quality of the output	12
Elective	1. Respond to changes in volume production processes	08
	2. Prepare products for the next stage or for storage	04
	3. Use and care for services, tools and equipment	10

UNIT STANDARDS FOR PLASTICS MANUFACTURING NQF LEVEL 2

Title 1: Monitor the quality of the output

Title 2: Respond to changes in volume production processes

Title 3: Use and care for services, tools and equipment

Title 4: Prepare products for the next stage or for storage

UNIT STANDARD TITLES AND SPECIFIC OUTCOMES NQF LEVEL 2

1. **TITLE: Monitor the quality of the output**
 - Specific outcome 1: Conduct visual checks on incoming and finished materials, components and product
 - Specific outcome 2: Measure products, components and materials and conduct initial/operational/on-line tests
 - Specific outcome 3: Recognise defects and mark or remove defective materials, products or components
 - Specific outcome 4: Record production and/or defects and report incidents
 - Specific outcome 5: Receive and respond to information or communications

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- 2. TITLE: Respond to changes in volume production processes**
- Specific outcome 1: Recognise and report changes and/or malfunctions in quality, operation, output or safe working conditions
- Specific outcome 2: Carry out housekeeping and simple maintenance as required by the process
- Specific outcome 3: Monitor material flow and respond to shortages
- Specific outcome 4: Check the product visually and respond to changes
- Specific outcome 5: Determine and record output figures, stoppages and changes
- Specific outcome 6: Discuss and explain incidents and problems related to the process, the materials and the products
- 3. TITLE: Use and care for services, tools and equipment**
- Specific outcome 1: Choose and use the right tool to cut, trim and finish
- Specific outcome 1: Choose and use the right tools to adjust and maintain equipment
- Specific outcome 1: Choose and use the right tools and materials to clean equipment and product
- Specific outcome 1: Lift, load and unload products, equipment and containers
- Specific outcome 1: Adjust, clean and store tools and equipment
- 4. TITLE: Prepare products for the next stage or for storage**
- Specific outcome 1: Determine packing and finishing requirements for product or components and prepare working area
- Specific outcome 2: Determine packing and finishing requirements for product or components and prepare working area
- Specific outcome 3: Apply finishing procedures
- Specific outcome 4: Carry out post-production operations
- Specific outcome 5: Identify, respond to and report problems

ELECTIVE UNIT STANDARDS - PLASTICS MANUFACTURING

FIELD: MANUFACTURING ENGINEERING AND TECHNOLOGY

SUB-FIELD: MANUFACTURING AND ASSEMBLY – PLASTICS
MANUFACTURING

NQF LEVEL: 3

CREDITS

	Level 3	Credits
Elective	1. Perform routine operations on volume manufacturing equipment	10
	2. Move, lift, lower and look after tooling	06
	3. Work with and look after materials in the production process	12

ELECTIVE UNIT STANDARDS FOR PLASTICS MANUFACTURING NQF LEVEL 3

Title 1: Perform routine operations on volume manufacturing equipment

Title 2: Move, lift, lower and look after tooling

Title 3: Work with and look after materials in the production process

UNIT STANDARD TITLES AND SPECIFIC OUTCOMES NQF LEVEL 3

1. **TITLE:** Perform routine operations on volume manufacturing equipment
 - Specific outcome 1: Monitor equipment and material, conduct quality check and resolve problems
 - Specific outcome 2: Start up, purge and shut down machine
 - Specific outcome 3: Report and record information

2. **TITLE:** Work with and look after materials in the production process
 - Specific outcome 1: Transport and assist with the installation of tooling
 - Specific outcome 2: Maintain condition of tooling during production
 - Specific outcome 3: Recognise and report problems

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- 3. TITLE: Move, lift, lower and look after tooling**
- Specific outcome 1: Determine materials requirements and locate materials
- Specific outcome 1: Plan and arrange transport of materials to workstation
- Specific outcome 3: Prepare materials for use, arrange and store
- Specific outcome 4: Look after, transport and store materials and report material usage
- Specific outcome 5: Pre- and post-treat materials and components
- Specific outcome 6: Select and use appropriate protective clothing and equipment
- Specific outcome 7: Record material quantities

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3. **TITLE:** **Prepare and process raw materials**
- Specific outcome 1: Obtain material according to job requirements
- Specific outcome 2: Determine preparation requirements and prepare material for production
- Specific outcome 3: Carry out quality checks related to the materials
- Specific outcome 4: Label and store material
- Specific outcome 5: Feed and maintain material level during the manufacturing process
- Specific outcome 6: Record and report material data
- Specific outcome 7: Explain and discuss material properties related to processing

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| Specific outcome 3: | Generate plan for optimisation, brief work group and implement plan |
| Specific outcome 4: | Collect and evaluate results, review and adjust the optimisation process until objectives have been achieved |
| Specific outcome 5: | Adjust and update operating procedures |
| Specific outcome 6: | Explain and discuss optimising issues with workgroup and other partners |
| Specific outcome 7: | Understand the impact and the inter-relationship of changes on production quality and output and production costs |
3. **TITLE:** **Conduct mould or material trials in volume manufacturing processes**
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| Specific outcome 1: | Collect data for evaluation |
| Specific outcome 2: | Formulate project plan |
| Specific outcome 3: | Select and brief project team |
| Specific outcome 4: | Arrange necessary tools, equipment and material |
| Specific outcome 5: | Run trials and report on results |
| Specific outcome 6: | Present final report and recommendations |