November 2006

December 2010

FIELD MANUFACTURING

Review of Glass Container Manufacturing unit standards

Subfield	Domain	Id
Glass and Glazing	Glass Container Manufacturing	18768-18772, 18919-18924

The Plastics and Materials Processing Industry Training Organisation Incorporated (PaMPITO) has completed the review of the unit standards listed above.

Date new versions published

Planned review date

Summary of review and consultation process

After use of all the registered unit standards for three years, it had become apparent that there were quite extensive gaps in the skills and knowledge specified at all levels of the Glass Container Manufacturing unit standards. Furthermore, experience with training delivery and assessment of these unit standards had identified a number of aspects that needed some adjustments or amendments. This review was seen as a crucial part of a continued drive towards skill enhancement in this sector.

As training towards these unit standards is delivered and assessed exclusively on a large single site, the required feedback from training, assessment, and moderation needed for this review had been progressively accumulated on that site. A small team of staff involved with training delivery and assessment was assembled to provide the main input into this review. Their expertise was also supplemented by a number of other specialists who all actively contributed as required. The review involved regular meetings over a period of four months.

The review resulted in modifications to eight unit standards, with three unit standards designated as expiring, five replacement unit standards and eight new unit standards to better meet industry needs.

Main changes resulting from the review

- Unit standard 18768 had its credit value increased, performance criteria 1.7-1.9 added, and the range for performance criteria 2.4 extended slightly. Minor wording changes were also made in both elements to clarify performance requirements.
- Unit standard 18769 had its title and entry information amended. Performance criteria 2.1 and 2.7 were added, performance criteria 2.2 and 2.3 were rewritten, and previous performance criteria 1.2 and 2.4 were removed. The ranges for performance criteria 1.1 and 2.8 were amended and the range for performance criterion 2.4 was removed. The evidence requirements for performance criteria 2.8, 2.9, and 2.10 were amended.
- Unit standard 18770 had its title and the evidence requirements for element 1 amended. A range was added to performance criterion 1.1 and performance criterion 1.3 was reworded, to clarify performance requirements.
- Unit standards 23064 and 23065 replaced unit standard 18771.

- Unit standard 18772 had previous element 2 removed, and amendments were made to the wording of range statements in performance criteria 1.1, 2.1, 2.2, and 2.3. Element 4, and performance criterion 4.3 were amended. The evidence requirements for performance criteria2.2-2.5, and element 4 were amended.
- Unit standard 18919 had its entry information amended and its level decreased as a result of provider feedback.
- Unit standard 18920 had performance criterion 2.1 added, a range was added to performance criterion 2.3, and the order of performance criterion 2.4 was changed. Amendments were made to the range statements in performance criteria 1.2 and 2.4.
- Unit standard 23062 replaced unit standard 18921.
- Unit standard 18922 had the title changed and the order of elements 1 and 2 reversed. Element 1 had its range amended and performance criterion 1.1 added, while element 2 was amended and previous performance criterion 2.4 removed. Element 3 was amended.
- Unit standards 23067 and 23068 replaced unit standard 18923.
- Unit standard 18924 had its credit value increased as a result of provider feedback. Element 1 was amended, new performance criteria 2.2, 2.4, and 2.5 were added, and the wording of performance criteria 2.1 and 2.3 was amended with a range also added to performance criterion 2.1.
- The accreditation options stated in the unit standards were updated to match PaMPITO's revised AMAP.
- Special Notes were edited, and modified where required, to ensure consistency with unit standard content, and in terms of style and format among unit standards.
- Eight new unit standards have been developed.

Unit standards categorised as category C expire at the end of December 2007.

Impact on existing provider accreditations

Current Accreditation for		Accreditation extended to			
Nature of	Classification	Level	Nature of	ld	Level
accreditation			accreditation		
Subfield	Glass and Glazing	2	Standard	23065	3

Impact on Accreditation and Moderation Action Plan (AMAP)

The AMAP will be updated to reflect the outcome of this review.

Impact on existing qualifications

Qualifications that contain the reviewed standards or classifications are tabled below.

Affected	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard	
Not materially affected		
	The qualification lists a standard that has a new classification	

The following PaMPITO qualifications are impacted by the outcome of this review and will be reviewed before December 2006. The items that generated the *Affected* status are in **bold**:

Qualification title	Standard in the qualification
National Certificate in Engineering and Technology	18769, 18770, 18771
(Glass Containers) (Level 2) [Ref: 0947]	
National Certificate in Engineering and Technology	18919, 18921 , 18922
(Glass Containers) (Level 3) [Ref: 0948]	
National Certificate in Engineering and Technology	18923, 18924
(Glass Containers) (Level 4) [Ref: 0949]	
National Certificate in Materials Processing (Level 1) with strands in General, Plastics Injection Moulding, Plastics Extrusion, Plastics Blow Moulding, Plastics Thermoforming, Plastics Blown Film Extrusion, Plastics Film Conversion, Plastics Injection Stretch-Blow Moulding, Plastics Rotational Moulding, Plastics Film Slitting, Expanded Polystyrene Moulding, Glass Containers, and Paint Manufacturing [Ref: 1072]	18768
National Certificate in Materials Processing (Level 2) with strands in General, Plastics Injection Moulding, Plastics Extrusion, Plastics Blow Moulding, Plastics Pressure Thermoforming, Plastics Vacuum Thermoforming, Plastics Blown Film Extrusion, Plastics Film Conversion, Plastics Injection Stretch-Blow Moulding, Plastics Rotational Moulding, Expanded Polystyrene Moulding, Polystyrene Pre-expansion, Glass Containers, and Paint Manufacturing [Ref: 1073]	18769, 18770, 18771

Summary of main changes

All changes are in **bold**.

Key to review category

Subfield

- A Dates changed, but no other changes are made the new version of the standard carries the same Id and a new version number
- **B** Changes made, but the overall outcome remains the same the new version of the standard carries the same Id and a new version number
- $\label{eq:constraint} \textbf{C} \quad \mbox{Major changes that necessitate the registration of a replacement standard with a new Id}$
- D Standard will expire and not be replaced

Glass and Glazing

Domain	Glass Container Manufacturing			
ld	Title	Level	Credit	Review Category
18768	Demonstrate knowledge of glass container manufacturing	1	4 5	В
18769	Supply raw materials to glass furnace operations Maintain supply of raw materials for glass furnace operations	2	8	В
18770	Perform analysis of batch and glass quality Perform analytical tests for batch and glass quality in accordance with enterprise procedure	2	3	В

ld	Title	Level	Credit	Review Category
18771 23064 and	Operate glass container forming equipment Operate off-line glass container forming equipment	2 2	8 4	С
23065	Operate glass container forming equipment	3	8	
18772	Operate glass container inspection and packaging equipment	2	8	В
18919	Perform job changes on an independent section machine for glass container forming	3 2	4	В
18920	Perform advanced operations for glass container forming	3	10	В
18921	Demonstrate knowledge of glass container conveying, inspection, and packaging equipment	2	2	С
23062	Demonstrate knowledge of glass container conveying, inspection, packaging, and quality control	1	6	
18922	Perform and control glass container inspection and packaging operations Perform quality control on a glass container production line	3	10	В
18923 23067 and	Operate and control glass furnace operations Describe the principles, operation and control of a glass furnace	4 2	12 6	С
23068	Control automatic raw material weighing and delivery equipment and operate a glass furnace	3	15	
18924	Control and optimise the glass container forming process	4	15 20	В
23061	Demonstrate knowledge of batch house operations for glass container production	1	2	New
23063	Demonstrate knowledge of forming equipment for the production of glass containers	1	2	New
23066	Demonstrate basic knowledge of glass furnace structure and operations	1	3	New
23069	Carry out emergency operation of plant services and equipment for glass container production	3	12	New
23070	Demonstrate knowledge of glass container raw materials and control glass furnace operations	4	20	New
23071	Demonstrate knowledge of mould equipment for glass container production	1	2	New
23072	Prepare, service, and repair of mould equipment for glass container production	2	16	New
23073	Perform fault diagnosis, repair and modification of mould equipment for glass container production	3	10	New