

**Field      Manufacturing****Review of *Blow Moulding* unit standards**

| <b>Subfield</b>                | <b>Domain</b> | <b>ID</b>     |
|--------------------------------|---------------|---------------|
| Plastics Processing Technology | Blow Moulding | 295-303, 9713 |

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

**Date new versions published**

**March 2013**

**Planned review date**

**December 2017**

**Summary**

These unit standards were reviewed as they had passed their planned review date.

Two review meetings were held in June and August 2012 with industry representatives from plastics processing companies who carry out blow moulding processes as well as a PaMPITO registered workplace assessor and a PaMPITO Training Services Manager. The group was asked to consider the following:

- The currency of the unit standards and the accuracy and appropriateness of their content in relation to the roles undertaken within the workplace.
- Level and credits in relation to performance outcomes.
- Any gaps in skills and/or knowledge that could be captured by the development of new unit standards.

There were minor changes required to all of the unit standards to make them fit for purpose and relevant. Unit standard 303 was split to separate the outcome around the skills to set up the extrusion blow moulding machine for advanced or complex moulds, from the skills to remove and fit an extrusion blow moulding die head assembly and an extruder screw. Previously this had been a barrier to achievement when the outcomes were assessed together. In removing outcome two, the remaining outcomes of unit standard 303 better reflected the overall outcome of the standard.

At the request of the industry representatives, and with support from PaMPITO staff, it was agreed to rename the domain where these unit standards sit to *Extrusion Blow Moulding*. The current domain title of *Blow Moulding* did not specify clearly enough the form of plastics processing taking place.

The reviewed unit standards were posted on the PaMPITO website for wider consultation throughout September 2012. Feedback received was confirmed with the industry representative group and incorporated into the relevant unit standards.

**Main changes**

- One new unit standard was developed to cover skills and knowledge required by the blow moulding sector.
- All unit standards will be registered under the new *Extrusion Blow Moulding* domain.
- Titles, purpose statements, explanatory notes, outcomes, evidence requirements, and

range statements have, where applicable, been reworded to clarify and simplify.

- Levels and credits have been updated to better reflect the content of the unit standards.

### Impact on existing organisations with consent to assess

| Current consent for |                |       | Consent extended to |                         |       |
|---------------------|----------------|-------|---------------------|-------------------------|-------|
| Nature of consent   | Classification | Level | Nature of consent   | Classification          | Level |
| Domain              | Blow Moulding  | Any   | Domain              | Extrusion Blow Moulding | Same  |

### Impact on registered qualifications

| Key to type of impact          |                                                                                                                                                                                                                            |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Affected</b>                | The qualification lists a reviewed classification (domain or subfield) in an elective set<br>The qualification lists a standard that has changes to level or credits<br>The qualification lists a C or D category standard |
| <b>Not materially affected</b> | The qualification lists a standard that has a new title<br>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 updated when they are reviewed in 2014. The unit standards that generated the status *Affected* are listed in **bold**.

| Ref  | Qualification Title                                                                                                                                                                                                                                                                                                                                           | ID                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 0394 | National Certificate in Plastics Processing Technology (Technical) (Level 2) with strands in Injection Moulding, Extrusion, Blow Moulding, Pressure Thermoforming, Vacuum Thermoforming, Blown Film Extrusion, Film Conversion, Injection Stretch-Blow Moulding, Rotational Moulding, Film Slitting, and Expanded Polystyrene Moulding□                       | 296, 297, <b>299</b> , 300, 302 |
| 0395 | National Certificate in Plastics Processing Technology (Technical) (Level 3) with strands in Injection Moulding, Extrusion, Blow Moulding, Pressure Thermoforming, Vacuum Thermoforming, Blown Film Extrusion, Film Conversion, Injection Stretch-Blow Moulding, Rotational Moulding, and Expanded Polystyrene Moulding□                                      | <b>298</b> , 301, <b>303</b>    |
| 0396 | National Certificate in Plastics Processing Technology (Technical) (Level 4) with strands in Injection Moulding, Extrusion, Blow Moulding, Thermoforming, Blown Film Extrusion, Injection Stretch-Blow Moulding Single Stage, Injection Stretch-Blow Moulding Two Stage, and Rotational Moulding□                                                             | 9714                            |
| 1361 | National Certificate in Plastics Processing Technology (Production) (Level 1) with strands in General, Injection Moulding, Extrusion, Blow Moulding, Thermoforming, Blown Film Extrusion, Film Conversion, Injection Stretch-Blow Moulding, Rotational Moulding, Film Slitting, and Expanded Polystyrene Moulding□                                            | 295, 296                        |
| 1362 | National Certificate in Plastics Processing Technology (Production) (Level 2) with strands in General, Injection Moulding, Extrusion, Blow Moulding, Pressure Thermoforming, Vacuum Thermoforming, Blown Film Extrusion, Film Conversion, Injection Stretch-Blow Moulding, Rotational Moulding, Expanded Polystyrene Moulding, and Polystyrene Pre-expansion□ | 297                             |
| 1407 | National Certificate in Engineering and Technology (Plastics Engineering) (Level 4) with strands in Injection Moulding, Extrusion, Blow Moulding, Pressure Thermoforming, Vacuum Thermoforming, Blown Film Extrusion, Film Conversion, Injection Stretch-Blow Moulding, and Rotational Moulding□                                                              | 295-297, <b>299</b> , 300, 302  |

### Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

| Key to review category |                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b>               | Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number           |
| <b>B</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 |
| <b>C</b>               | Major changes that necessitate the registration of a replacement standard with a new ID                                               |
| <b>D</b>               | Standard will expire and not be replaced                                                                                              |

## Manufacturing &gt; Plastics Processing Technology

| ID  | Domain                                          | Title                                                                                                                                                       | Level | Credit  | Review Category |
|-----|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------------|
| 295 | Blow Moulding<br><b>Extrusion Blow Moulding</b> | Perform basic process operations for blow moulding<br><b>Perform process operations for extrusion blow moulding</b>                                         | 1     | 4       | B               |
| 296 | Blow Moulding<br><b>Extrusion Blow Moulding</b> | Operate the blow moulding machine<br><b>Operate the extrusion blow moulding machine</b>                                                                     | 2     | 6       | B               |
| 297 | Blow Moulding<br><b>Extrusion Blow Moulding</b> | Run and monitor the blow moulding production process<br><b>Run and monitor the extrusion blow moulding production process</b>                               | 2     | 10      | B               |
| 298 | Blow Moulding<br><b>Extrusion Blow Moulding</b> | Control and optimise the blow moulding production process<br><b>Control and trial the extrusion blow moulding process for a simple extrusion blow mould</b> | 3     | 12<br>8 | B               |
| 299 | Blow Moulding<br><b>Extrusion Blow Moulding</b> | Service simple tooling for blow moulding<br><b>Service a simple mould for extrusion blow moulding</b>                                                       | 2     | 7<br>4  | B               |
| 300 | Blow Moulding<br><b>Extrusion Blow Moulding</b> | Service advanced tooling for blow moulding<br><b>Service an advanced or complex mould for extrusion blow moulding</b>                                       | 2     | 8       | B               |
| 301 | Blow Moulding<br><b>Extrusion Blow Moulding</b> | Maintain dieheads and simple and advanced tooling, and service complex tooling for blow moulding<br><b>Service a die head for extrusion blow moulding</b>   | 3     | 12      | B               |
| 302 | Blow Moulding<br><b>Extrusion Blow Moulding</b> | Set up simple tooling for blow moulding<br><b>Set up simple moulds and ancillary equipment for extrusion blow moulding</b>                                  | 2     | 8       | B               |
| 303 | Blow Moulding<br><b>Extrusion Blow Moulding</b> | Set up advanced and complex tooling for blow moulding<br><b>Set up and start up an extrusion blow moulding machine to run advanced or complex moulds</b>    | 3     | 12<br>6 | B               |

| <b>ID</b> | <b>Domain</b>                                   | <b>Title</b>                                                                                                                         | <b>Level</b> | <b>Credit</b> | <b>Review Category</b> |
|-----------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------------|
| 9714      | Blow Moulding<br><b>Extrusion Blow Moulding</b> | Trial an advanced or complex blow mould<br><b>Trial and evaluate an advanced or complex extrusion blow mould or moulding process</b> | 4            | 8             | B                      |
| 27922     | <b>Extrusion Blow Moulding</b>                  | <b>Remove and fit an extrusion blow moulding die head assembly and an extruder screw</b>                                             | 3            | 6             | <b>New</b>             |