



Polymer Operations (QCF)

These QCF qualifications provide recognition of the skills, competence and knowledge of individuals working in polymer processing/polymer composite and related operations. There are qualifications available at Levels 1 to 3 to allow for progression.

Document detail:

Level 1 Certificate in Polymer Operations (QCF) - 17 Credits

Level 2 Certificate in Polymer/Polymer Composite Operations (QCF)

- Polymer Machine Operations Pathway - 27 Credits
- Polymer Hand-Based Operations Pathway - 27 Credits

Level 2 Certificate in Polymer Related Operations - 16 Credits

Level 3 Diploma in Polymer/Polymer Composite Operations (QCF)

- Polymer Machine Operations Pathway - 39 Credits
- Polymer Hand-Based Operations Pathway - 39 Credits

Who are the Qualifications for:

These qualifications will provide recognition of the skills and knowledge of individuals working in the Polymer Processing/Polymer Composite and related sectors.

The Level 1 Certificate in Polymer Operations covers meeting health, safety and environmental requirements; establishing and maintaining effective working relationships; contributing to the maintenance of product quality and contributing to the handover of production activities.

The Level 2 Certificate in Polymer/Polymer Composite Operations contains two Pathways: Polymer Machine Operations and Polymer Hand-Based Operations. The Polymer Machine Operations Pathway covers starting up, maintaining and shutting down a machine-based production process. The Polymer Hand-Based Operations Pathway covers producing products using hand-based operations; finishing products and contributing to the provision of ancillary systems.

The Level 2 Certificate in Polymer Related Operations covers meeting health, safety and environmental requirements and contributing to the maintenance of product quality.

The Level 3 Diploma in Polymer/Polymer Composite Operations contains two Pathways: Polymer Machine Operations and Polymer Hand-Based Operations. The Polymer Machine Operations Pathway covers configuring and setting processing systems to meet production requirements and optimising operations which are under process control. The Polymer Hand-Based Operations Pathway covers carrying out complex manual operations and evaluating and adjusting manual operations.

Certificate in Polymer Operations (QCF)	Level 1	17 Credits
	501/1242/9	
Last Registration Date	30 th June 2015	
Last Certification Date	30 th June 2016	

For the Certificate: 7 Units totalling a minimum of 17 Credits are required.

Mandatory Units

- POLY 39 Meet Safety, Health and Environmental Requirements in the Workplace Within Polymer Processing and Related Environments - 3 Credits
 - POLY 41 Contribute to the Maintenance of Product Quality Within Polymer Processing and Related Environments - 3 Credits
 - POLY 42 Contribute to the Handover of Production Activities Within Polymer Processing and Related Environments - 3 Credits
 - POLY 45 Establish and Maintain Effective Working Relationships Within Polymer Processing and Related Environments - 2 Credits
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Optional Units

Learners must achieve 3 Optional Units totalling a minimum of 6 Credits.

- POLY 1 Prepare Materials for Processing According to Instructions Within Polymer Processing and Related Environments - 3 Credits
 - POLY 2 Maintain Stocks to Specified Levels Within Polymer Processing and Related Environments - 2 Credits
 - POLY 3 Move Polymer Materials or Products Within Polymer Processing and Related Environments - 2 Credits
 - POLY 4 Contribute to Preparing for Processing Operations Within Polymer Processing and Related Environments - 3 Credits
 - POLY 5 Contribute to a Machine-Based Processing Operation Within Polymer Processing and Related Environments - 3 Credits
 - POLY 6 Contribute to a Hand-Based Processing Operation Within Polymer Processing and Related Environments - 3 Credits
 - POLY 7 Finish Production Components Within Polymer Processing and Related Environments - 2 Credits
 - POLY 8 Pack and Store Production Components Within Polymer Processing and Related Environments - 2 Credits
 - POLY 28 Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments - 3 Credits
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Certificate in Polymer/Polymer Composite Operations (QCF)	Level 2
	501/1163/2
Last Registration Date	30 th June 2015
Last Certification Date	30 th June 2017

This qualification contains the following Pathways:

- Polymer Machine Operations: A minimum of 27 Credits are required.
- Polymer Hand-Based Operations: A minimum of 27 Credits are required.

For the Polymer Machine Operations Pathway learners must complete 1 Common Mandatory Unit, 3 Pathway Specific Mandatory Units and 11 Credits from Optional Units.

For the Polymer Hand-Based Operations Pathway learners must complete 1 Common Mandatory Unit, 3 Pathway Specific Mandatory Units and 14 Credits from Optional Units.

Mandatory Unit

POLY 39	Meet Safety, Health and Environmental Requirements in the Workplace Within Polymer Processing and Related Environments - 3 Credits
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Polymer Machine Operations - Mandatory Units

POLY 11	Prepare to Start Up a Machine-Based Production Process Within Polymer Processing and Related Environments - 4 Credits
POLY 12	Start Up and Maintain a Machine-Based Production Process Within Polymer Processing and Related Environments - 5 Credits
POLY 13	Shutdown a Machine-Based Production Process Within Polymer Processing and Related Environments - 4 Credits

Polymer Machine Operations - Optional Units

Learners must achieve a minimum of 11 Credits.

POLY 1	Prepare Materials for Processing According to Instructions Within Polymer Processing and Related Environments - 3 Credits
POLY 9	Accept, Verify and Store Materials Required for Process Operations Within Polymer Processing and Related Environments - 3 Credits
POLY 10	Supply Materials Required for Process Operations Within Polymer Processing and Related Environments - 3 Credits
POLY 17	Finish Products Within Polymer Processing and Related Environments - 2 Credits
POLY 18	Inspect Products Within Polymer Processing and Related Environments - 4 Credits
POLY 21	Contribute to the Provision of Ancillary Systems Within Polymer Processing and Related Environments - 5 Credits
POLY 22	Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 3 Credits
POLY 23	Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 3 Credits
POLY 26	Maintain the Condition of Process Equipment Within Polymer Processing and Related Environments - 7 Credits
POLY 28	Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments - 3 Credits
POLY 41	Contribute to the Maintenance of Product Quality Within Polymer Processing and Related Environments - 3 Credits
POLY 42	Contribute to the Handover of Production Activities Within Polymer Processing and Related Environments - 3 Credits
POLY 45	Establish and Maintain Effective Working Relationships Within Polymer Processing and Related Environments - 2 Credits
POLY 48	Assemble Products Within Polymer Processing and Related Environments - 3 Credits

Polymer Hand-Based Operations - Mandatory Units

- POLY 15 Prepare to Produce Products by Hand-Based Operations Within Polymer Processing and Related Environments - 4 Credits
- POLY 16 Produce Products Using Hand-Based Operations Within Polymer Processing and Related Environments - 4 Credits
- POLY 17 Finish Products Within Polymer Processing and Related Environments - 2 Credits

Polymer Hand-Based Operations - Optional Units

Learners must achieve a minimum of 14 Credits.

- POLY 1 Prepare Materials for Processing According to Instructions Within Polymer Processing and Related Environments - 3 Credits
 - POLY 9 Accept, Verify and Store Materials Required for Process Operations Within Polymer Processing and Related Environments - 3 Credits
 - POLY 10 Supply Materials Required for Process Operations Within Polymer Processing and Related Environments - 3 Credits
 - POLY 18 Inspect Products Within Polymer Processing and Related Environments - 4 Credits
 - POLY 21 Contribute to the Provision of Ancillary Systems Within Polymer Processing and Related Environments - 5 Credits
 - POLY 22 Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 3 Credits
 - POLY 23 Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 3 Credits
 - POLY 26 Maintain the Condition of Process Equipment Within Polymer Processing and Related Environments - 7 Credits
 - POLY 28 Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments - 3 Credits
 - POLY 41 Contribute to the Maintenance of Product Quality Within Polymer Processing and Related Environments - 3 Credits
 - POLY 42 Contribute to the Handover of Production Activities Within Polymer Processing and Related Environments - 3 Credits
 - POLY 45 Establish and Maintain Effective Working Relationships Within Polymer Processing and Related Environments - 2 Credits
 - POLY 48 Assemble Products Within Polymer Processing and Related Environments - 3 Credits
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Certificate in Polymer Related Operations (QCF)	Level 2	16 Credits
	600/2122/6	
Last Registration Date	30 th June 2015	
Last Certification Date	30 th June 2017	

For the Certificate: A minimum of 16 Credits are required.

Mandatory Units

Learners must achieve all 6 Credits.

- POLY 39 Meet Safety, Health and Environmental Requirements in the Workplace Within Polymer Processing and Related Environments - 3 Credits
 - POLY 41 Contribute to the Maintenance of Product Quality Within Polymer Processing and Related Environments - 3 Credits
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Optional Units

Learners must achieve a minimum of 10 Credits from a minimum of 3 Optional Units.

- POLY 12 Start Up and Maintain a Machine-Based Production Process Within Polymer Processing and Related Environments - 5 Credits
 - POLY 13 Shutdown a Machine-Based Production Process Within Polymer Processing and Related Environments - 4 Credits
 - POLY 15 Prepare to Produce Products by Hand-Based Operations Within Polymer Processing and Related Environments - 4 Credits
 - POLY 16 Produce Products Using Hand-Based Operations Within Polymer Processing and Related Environments - 4 Credits
 - POLY 17 Finish Products Within Polymer Processing and Related Environments - 2 Credits
 - POLY 18 Inspect Products Within Polymer Processing and Related Environments - 4 Credits
 - POLY 22 Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 3 Credits
 - POLY 23 Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 3 Credits
 - POLY 24 Assess Data and Produce Reports Within Polymer Processing and Related Environments - 5 Credits
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Diploma in Polymer/Polymer Composite Operations (QCF)	Level 3
	501/1173/5
Last Registration Date	30 th June 2015
Last Certification Date	30 th June 2018

This qualification contains the following Pathways:

- **Polymer Machine Operations:** 7 Units totalling a minimum of 39 Credits are required.
- **Polymer Hand-Based Operations:** 7 Units totalling a minimum of 39 Credits are required.

For both Pathways learners must achieve 2 Common Mandatory Units, 2 Pathway Specific Mandatory Units and 3 Optional Units.

Mandatory Units

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| POLY 39 | Meet Safety, Health and Environmental Requirements in the Workplace Within Polymer Processing and Related Environments - 3 Credits |
| POLY 47 | Rectify Process Problems Within Polymer Processing and Related Environments - 8 Credits |
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Polymer Machine Operations - Mandatory Units

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| POLY 29 | Configure and Set Processing Systems to Meet Production Requirements Within Polymer Processing and Related Environments - 6 Credits |
| POLY 30 | Optimise Operations Which are Under Process Control Within Polymer Processing and Related Environments - 7 Credits |
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Polymer Hand-Based Operations - Mandatory Units

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| POLY 32 | Carry Out Complex Manual Operations Within Polymer Processing and Related Environments - 6 Credits |
| POLY 33 | Evaluate and Adjust Manual Operations Within Polymer Processing and Related Environments - 7 Credits |
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Optional Units

Learners must achieve 3 Optional Units totalling a minimum of 15 Credits.

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| POLY 27 | Carry Out Routine Servicing Procedures on Polymer Process Plant and Equipment Within Polymer Processing and Related Environments - 7 Credits |
| POLY 34 | Carry Out Complex Sampling Operations Within Polymer Processing and Related Environments - 7 Credits |
| POLY 35 | Carry Out Complex Testing Operations Within Polymer Processing and Related Environments - 4 Credits |
| POLY 36 | Provide Technical Support Within Polymer Processing and Related Environments - 8 Credits |
| POLY 38 | Plan Polymer Process Activities Within Polymer Processing and Related Environments - 4 Credits |
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