



# Operations and Technical Support in the Polymer and Composite Industries (QCF)

These QCF qualifications provide recognition of the skills, competence and knowledge of individuals working in operations and technical support in the polymer and composite industries. There are qualifications available at Levels 2 to 3 to allow for progression.

Document detail:

**Level 2 Certificate in Operations and Technical Support in the Polymer Industries (QCF)**

- Maintenance Support Pathway - 31 Credits
- Support Services Pathway - 22 Credits

**Level 3 Diploma in Operations and Technical Support in the Polymer Industries (QCF) - 44 Credits**

**Level 2 Certificate in Operations and Technical Support in the Composite Industries (QCF)**

- Maintenance Support Pathway - 32 Credits
- Support Services Pathway - 23 Credits

**Level 3 Diploma in Operations and Technical Support in the Composite Industries (QCF) - 43 Credits**

Who are the Qualifications for:

These qualifications have been developed by Cogent SSC following consultation with industry to create technical competence qualifications that represent minimal occupational competence in a particular role.

Certificate in Operations and Technical Support in the Polymer Industries (QCF)	Level 2 500/7803/3
Last Registration Date	31 <sup>st</sup> December 2010
Last Certification Date	31 <sup>st</sup> December 2012

There are two Pathways within this qualification:

- For the Maintenance Support Pathway: 14 Units totalling a minimum of 31 Credits are required.
- For the Support Services Pathway: 14 Units totalling a minimum of 22 Credits are required.

For the Maintenance Support Pathway candidates must achieve a minimum of 31 Credits by completing all 8 Mandatory Units, all 4 Maintenance Support Mandatory Units and 2 Optional Units. Knowledge and competence units must be taken in combination i.e. if unit PPRO B1k is chosen, unit PPRO B1c must also be completed; and vice-versa.

For the Support Services Pathway candidates must achieve a minimum of 22 Credits by completing all 8 Mandatory Units and 6 Optional Units. Knowledge and competence units must be taken in combination i.e. if unit PPRO B1k is chosen, unit PPRO B1c must also be completed; and vice-versa.

### Mandatory Units

PPRO C3c	Prepare to Start Up a Machine-Based Production Process Within Polymer Processing and Related Environments - 2 Credits
PPRO C3k	How to Prepare to Start Up a Machine-Based Production Process Within Polymer Processing and Related Environments - 2 Credits
PPRO C4c	Start Up and Maintain a Machine-Based Production Process Within Polymer Processing and Related Environments - 3 Credits
PPRO C4k	How to Start Up and Maintain a Machine-Based Production Process Within Polymer Processing and Related Environments - 3 Credits
PPRO C5c	Shutdown a Machine-Based Production Process Within Polymer Processing and Related Environments - 2 Credits
PPRO C5k	How to Shutdown a Machine-Based Production Process Within Polymer Processing and Related Environments - 1 Credit
PPRO M1c	Meet Safety, Health and Environmental Requirements Within Processing and Manufacturing Environments - 1 Credit
PPRO M1k	How to Meet Safety, Health and Environmental Requirements Within Processing and Manufacturing Environments - 2 Credits

### Maintenance Support - Mandatory Units

*Candidates must achieve all units from this Group.  
Credit Value required: Minimum 13.*

PEM C2.5c	Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
PEM C2.5k	How to Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
PEM C3.2c	Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment - 2 Credits
PEM C3.2k	How to Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment - 3 Credits

### Maintenance Support - Optional Units

*Candidates must achieve a minimum of 2 units from this Option Group. Knowledge and competence units must be taken in combination i.e. if unit PPRO B1k is chosen, unit PPRO B1c must also be completed; and vice-versa.  
Credit Value required: Minimum 2.*

PPRO B1c	Prepare Materials for Processing According to Instructions Within Processing and Manufacturing Environments - 2 Credits
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- PPRO B1k How to Prepare Materials for Processing According to Instructions Within Processing and Manufacturing Environments - 2 Credits
- PPRO C10c Inspect Products Within Polymer Processing and Related Environments - 2 Credits
- PPRO C10k How to Inspect Products Within Polymer Processing and Related Environments - 2 Credits
- PPRO C13c Contribute to the Provision of Ancillary Systems Within Processing and Manufacturing Environments - 3 Credits
- PPRO C13k How to Contribute to the Provision of Ancillary Systems Within Processing and Manufacturing Environments - 2 Credits
- PPRO C14c Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 2 Credits
- PPRO C14k How to Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 2 Credits
- PPRO C15c Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 2 Credits
- PPRO C15k How to Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 2 Credits
- PPRO C18c Maintain the Condition of Process Equipment Within Processing and Manufacturing Environments - 4 Credits
- PPRO C18k How to Maintain the Condition of Process Equipment Within Processing and Manufacturing Environments - 4 Credits
- PPRO C1c Accept, Verify and Store Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
- PPRO C1k How to Accept, Verify and Store Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
- PPRO C20c Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments - 1 Credit
- PPRO C20k How to Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments - 1 Credit
- PPRO C2c Supply Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
- PPRO C2k How to Supply Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
- PPRO C9c Finish Products Within Polymer Processing and Related Environments - 1 Credit
- PPRO C9k How to Finish Products Within Polymer Processing and Related Environments - 1 Credit

#### Support Services - Optional Units

*Candidates must achieve a minimum of 6 units from this Option Group. Knowledge and competence units must be taken in combination i.e. if unit PPRO B1k is chosen, unit PPRO B1c must also be completed; and vice-versa.  
Credit Value required: Minimum 6.*

- PEM C2.5c Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
- PEM C2.5k How to Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
- PEM C3.2c Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment - 2 Credits
- PEM C3.2k How to Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment - 3 Credits
- PPRO B1c Prepare Materials for Processing According to Instructions Within Processing and Manufacturing Environments - 2 Credits
- PPRO B1k How to Prepare Materials for Processing According to Instructions Within Processing and Manufacturing Environments - 2 Credits
- PPRO C10c Inspect Products Within Polymer Processing and Related Environments - 2 Credits
- PPRO C10k How to Inspect Products Within Polymer Processing and Related Environments - 2 Credits
- PPRO C13c Contribute to the Provision of Ancillary Systems Within Processing and Manufacturing Environments - 3 Credits
- PPRO C13k How to Contribute to the Provision of Ancillary Systems Within Processing and Manufacturing Environments - 2 Credits
- PPRO C14c Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 2 Credits
- PPRO C14k How to Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 2 Credits
- PPRO C15c Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 2 Credits
- PPRO C15k How to Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 2 Credits
- PPRO C18c Maintain the Condition of Process Equipment Within Processing and Manufacturing Environments - 4 Credits

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- PPRO C18k How to Maintain the Condition of Process Equipment Within Processing and Manufacturing Environments - 4 Credits
- PPRO C1c Accept, Verify and Store Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
- PPRO C1k How to Accept, Verify and Store Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
- PPRO C20c Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments -1 Credit
- PPRO C20k How to Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments - 1 Credit
- PPRO C2c Supply Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
- PPRO C2k How to Supply Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
- PPRO C9c Finish Products Within Polymer Processing and Related Environments - 1 Credit
- PPRO C9k How to Finish Products Within Polymer Processing and Related Environments - 1 Credit
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Diploma in Operations and Technical Support in the Polymer Industries (QCF)	Level 3	44 Credits
	500/7758/2	
Last Registration Date	31 <sup>st</sup> December 2010	
Last Certification Date	31 <sup>st</sup> December 2013	

For the Diploma: 14 Units totalling a minimum of 44 Credits are required.

#### Mandatory Units

PPRO D1c	Configure and Set Processing Systems to Meet Production Requirements Within Polymer Processing and Related Environments - 4 Credits
PPRO D1k	How to Configure and Set Processing Systems to Meet Production Requirements Within Polymer Processing and Related Environments - 4 Credits
PPRO D2c	Optimise Standard Operations Which are Under Process Control Within Processing and Manufacturing Environments - 4 Credits
PPRO D2k	How to Optimise Standard Operations Which are Under Process Control Within Processing and Manufacturing Environments - 5 Credits
PPRO M1c	Meet Safety, Health and Environmental Requirements Within Processing and Manufacturing Environments - 1 Credit
PPRO M1k	How to Meet Safety, Health and Environmental Requirements Within Processing and Manufacturing Environments - 2 Credits
PPRO M9c	Rectify Process Problems Within Processing and Manufacturing Environments - 4 Credits
PPRO M9k	How to Rectify Process Problems Within Processing and Manufacturing Environments - 4 Credits

#### Optional Units

*Candidates must complete 6 Optional Units from this Group. Knowledge and competence units must be taken in combination i.e. if unit PPRO C19k is chosen, unit PPRO C19c must also be completed; and vice-versa.  
Credit Value required: Minimum 16.*

PEM C2.5c	Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
PEM C2.5k	How to Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
PEM C3.2c	Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment - 2 Credits
PEM C3.2k	How to Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment - 3 Credits
PPRO C19c	Carry Out Routine Servicing Procedures on Polymer Process Plant and Equipment - 4 Credits
PPRO C19k	How to Carry Out Routine Servicing Procedures on Polymer Process Plant and Equipment - 4 Credits
PPRO D10c	Plan Polymer Process Activities Within Processing and Manufacturing Environments - 2 Credits
PPRO D10k	How to Plan Polymer Process Activities Within Processing and Manufacturing Environments - 3 Credits
PPRO D6c	Carry Out Complex Sampling Operations Within Polymer Processing and Related Environments - 4 Credits
PPRO D6k	How to Carry Out Complex Sampling Operations Within Polymer Processing and Related Environments - 3 Credits
PPRO D7c	Carry Out Testing Operations Within Polymer Processing and Related Environments - 3 Credits
PPRO D7k	How to Carry Out Testing Operations Within Polymer Processing and Related Environments - 3 Credits
PPRO D8c	Provide Technical Services Within Polymer Processing and Related Environments - 5 Credits
PPRO D8k	How to Provide Technical Services Within Polymer Processing and Related Environments - 6 Credits

Certificate in Operations and Technical Support in the Composite Industries (QCF)	Level 2 500/7804/5
Last Registration Date	31 <sup>st</sup> December 2010
Last Certification Date	31 <sup>st</sup> December 2012

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There are two Pathways within this qualification:

- For the Maintenance Support Pathway: 16 Units totalling a minimum of 32 Credits are required.
- For the Support Services Pathway: 16 Units totalling a minimum of 23 Credits are required.

For the Maintenance Support Pathway candidates must achieve a minimum of 32 Credits by completing all 10 Mandatory Units, all 4 Maintenance Support Mandatory Units and 2 Optional Units. Knowledge and competence units must be taken in combination i.e. if unit PPRO B1k is chosen, unit PPRO B1c must also be completed; and vice-versa.

For the Support Services Pathway candidates must achieve a minimum of 23 Credits by completing all 10 Mandatory Units and 6 Optional Units. Knowledge and competence units must be taken in combination i.e. if unit PPRO B1k is chosen, unit PPRO B1c must also be completed; and vice-versa.

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### Mandatory Units

PPRO C13c	Contribute to the Provision of Ancillary Systems Within Processing and Manufacturing Environments - 3 Credits
PPRO C13k	How to Contribute to the Provision of Ancillary Systems Within Processing and Manufacturing Environments - 2 Credits
PPRO C7c	Prepare to Produce Products by Hand-Based Operations Within Polymer Processing and Related Environments - 1 Credit
PPRO C7k	How to Prepare to Produce Products by Hand-Based Operations Within Polymer Processing and Related Environments - 2 Credits
PPRO C8c	Produce Products Using Hand-Based Operations Within Polymer Processing and Related Environments - 2 Credits
PPRO C8k	How to Produce Products Using Hand-Based Operations Within Polymer Processing and Related Environments - 2 Credits
PPRO C9c	Finish Products Within Polymer Processing and Related Environments - 1 Credit
PPRO C9k	How to Finish Products Within Polymer Processing and Related Environments - 1 Credit
PPRO M1c	Meet Safety, Health and Environmental Requirements Within Processing and Manufacturing Environments - 1 Credit
PPRO M1k	How to Meet Safety, Health and Environmental Requirements Within Processing and Manufacturing Environments - 2 Credits

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### Maintenance Support - Mandatory Units

*Candidates must achieve all units from this Group.  
Credit Value required: Minimum 13.*

PEM C2.5c	Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
PEM C2.5k	How to Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
PEM C3.2c	Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment - 2 Credits
PEM C3.2k	How to Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment - 3 Credits

### Maintenance Support - Optional Units

*Candidates must achieve a minimum of 2 units from this Option Group. Knowledge and competence units must be taken in combination i.e. if unit PPRO B1k is chosen, unit PPRO B1c must also be completed; and vice-versa.  
Credit Value required: Minimum 2.*

PPRO B1c	Prepare Materials for Processing According to Instructions Within Processing and Manufacturing Environments - 2 Credits
PPRO B1k	How to Prepare Materials for Processing According to Instructions Within Processing and Manufacturing Environments - 2 Credits

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- PPRO C10c Inspect Products Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C10k How to Inspect Products Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C14c Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C14k How to Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C15c Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C15k How to Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C18c Maintain the Condition of Process Equipment Within Processing and Manufacturing Environments - 4 Credits
  - PPRO C18k How to Maintain the Condition of Process Equipment Within Processing and Manufacturing Environments - 4 Credits
  - PPRO C1c Accept, Verify and Store Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
  - PPRO C1k How to Accept, Verify and Store Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
  - PPRO C20c Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments - 1 Credit
  - PPRO C20k How to Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments - 1 Credit
  - PPRO C2c Supply Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
  - PPRO C2k How to Supply Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit

#### Support Services - Optional Units

*Candidates must achieve a minimum of 6 units from this Option Group. Knowledge and competence units must be taken in combination i.e. if unit PPRO B1k is chosen, unit PPRO B1c must also be completed; and vice-versa.  
Credit Value required: Minimum 6.*

- PEM C2.5c Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
  - PEM C2.5k How to Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
  - PEM C3.2c Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment - 2 Credits
  - PEM C3.2k How to Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment - 3 Credits
  - PPRO B1c Prepare Materials for Processing According to Instructions Within Processing and Manufacturing Environments - 2 Credits
  - PPRO B1k How to Prepare Materials for Processing According to Instructions Within Processing and Manufacturing Environments - 2 Credits
  - PPRO C10c Inspect Products Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C10k How to Inspect Products Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C14c Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C14k How to Carry Out Simple Sampling Operations Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C15c Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C15k How to Carry Out Simple Testing Operations Within Polymer Processing and Related Environments - 2 Credits
  - PPRO C18c Maintain the Condition of Process Equipment Within Processing and Manufacturing Environments - 4 Credits
  - PPRO C18k How to Maintain the Condition of Process Equipment Within Processing and Manufacturing Environments - 4 Credits
  - PPRO C1c Accept, Verify and Store Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
  - PPRO C1k How to Accept, Verify and Store Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
  - PPRO C20c Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments - 1 Credit
  - PPRO C20k How to Pick Polymer Stock and Make Up Orders Within Polymer Processing and Related Environments - 1 Credit
  - PPRO C2c Supply Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
  - PPRO C2k How to Supply Materials Required for Process Operations Within Polymer Processing and Related Environments - 1 Credit
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Diploma in Operations and Technical Support in the Composite Industries (QCF)	Level 3	43 Credits
	500/7838/0	
Last Registration Date	31 <sup>st</sup> December 2010	
Last Certification Date	31 <sup>st</sup> December 2013	

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For the Diploma: 14 Units totalling a minimum of 43 Credits are required.

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#### Mandatory Units

PPRO D4c	Carry Out Complex Manual Operations Within Processing and Manufacturing Environments - 3 Credits
PPRO D4k	How to Carry Out Complex Manual Operations Within Processing and Manufacturing Environments - 3 Credits
PPRO D5c	Evaluate and Adjust Manual Operations Within Polymer Processing and Related Environments - 3 Credits
PPRO D5k	How to Evaluate and Adjust Manual Operations Within Polymer Processing and Related Environments - 5 Credits
PPRO M1c	Meet Safety, Health and Environmental Requirements Within Processing and Manufacturing Environments - 1 Credit
PPRO M1k	How to Meet Safety, Health and Environmental Requirements Within Processing and Manufacturing Environments - 2 Credits
PPRO M9c	Rectify Process Problems Within Processing and Manufacturing Environments - 4 Credits
PPRO M9k	How to Rectify Process Problems Within Processing and Manufacturing Environments - 4 Credits

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#### Optional Units

*Candidates must complete 6 Optional Units from this Group. Knowledge and competence units must be taken in combination i.e. if unit PPRO C19k is chosen, unit PPRO C19c must also be completed; and vice-versa. Credit Value required: Minimum 18.*

PEM C2.5c	Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
PEM C2.5k	How to Prepare Work Areas for the Maintenance of Process Plant and Equipment - 4 Credits
PPRO C19c	Carry Out Routine Servicing Procedures on Polymer Process Plant and Equipment - 4 Credits
PPRO C19k	How to Carry Out Routine Servicing Procedures on Polymer Process Plant and Equipment - 4 Credits
PPRO D10c	Plan Polymer Process Activities Within Processing and Manufacturing Environments - 2 Credits
PPRO D10k	How to Plan Polymer Process Activities Within Processing and Manufacturing Environments - 3 Credits
PPRO D6c	Carry Out Complex Sampling Operations Within Polymer Processing and Related Environments - 4 Credits
PPRO D6k	How to Carry Out Complex Sampling Operations Within Polymer Processing and Related Environments - 3 Credits
PPRO D7c	Carry Out Testing Operations Within Polymer Processing and Related Environments - 3 Credits
PPRO D7k	How to Carry Out Testing Operations Within Polymer Processing and Related Environments - 3 Credits
PPRO D8c	Provide Technical Services Within Polymer Processing and Related Environments - 5 Credits
PPRO D8k	How to Provide Technical Services Within Polymer Processing and Related Environments - 6 Credits

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