



Process Engineering Maintenance

Qualification Structure

The Qualification Structure requires candidates to complete Common Mandatory units followed by a choice of pathways. The pathways may be either **Electrical, Mechanical or Instrument and Control**. Having chosen the preferred pathway, candidates will be required to complete further Mandatory units followed by a choice of Optional units.

Document detail:

Process Engineering Maintenance	Level 2	Electrical	NVQ & SVQ
Process Engineering Maintenance	Level 2	Mechanical	NVQ & SVQ
Process Engineering Maintenance	Level 2	Instrument and Control	NVQ & SVQ
Process Engineering Maintenance	Level 3	Electrical	NVQ & SVQ
Process Engineering Maintenance	Level 3	Mechanical	NVQ & SVQ
Process Engineering Maintenance	Level 3	Instrument and Control	NVQ & SVQ

Who is the Qualification for:

The above qualifications may be suitable for you if you have one of the following job roles:

- Electrical Engineer
- Electrical Engineering Technician
- Electronics Engineer / Technician
- Engineering Maintenance Fitter / Technician
- Mechanical Engineer
- Mechanical Engineering Technician
- Chemical Engineer
- Chemical Engineering Technician
- Oil and Gas Engineer
- Oil and Gas Industry Technician

Process Engineering Maintenance	Level 2 100/4829/7 (NVQ)	Level 2 G7MH22 (SVQ)
Pathway	Electrical	Electrical
Last Registration Date	31 st December 2010	31 st July 2011
Last Certification Date	31 st December 2012	31 st July 2013

Total Number of Units Required: 8

Mandatory Units

- C2.1 Reinststate the work area after completing the maintenance of process plant and equipment
 - C2.2 Hand over process plant and equipment
 - C2.3 Deal with hazards
 - C2.4 Contribute to effective working relationships in process engineering maintenance
 - E2.1 Carry out planned maintenance procedures on electrical process plant and equipment
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Optional Units

3 units required, where 1 must be from Option A plus 2 further units from Option B:

Option A

- C2.5 Prepare work areas for the maintenance of process plant and equipment
- E2.2 Prepare materials for the maintenance of electrical process plant and equipment
- E2.3 Prepare process plant and equipment in support of electrical engineering activities
- C2.6 Prepare loads for moving
- C2.7 Move loads

Option B

- E2.4 Assemble components of electrical process plant and equipment
- E2.5 Remove components from electrical process plant and equipment
- E2.6 Replace components in electrical process plant and equipment

Process Engineering Maintenance	Level 2 100/4829/7 (NVQ)	Level 2 G7MM22 (SVQ)
Pathway	Mechanical	Mechanical
Last Registration Date	31 st December 2010	31 st July 2011
Last Certification Date	31 st December 2012	31 st July 2013

Total Number of Units Required: 8

Mandatory Units

- C2.1 Reinststate the work area after completing the maintenance of process plant and equipment
- C2.2 Hand over process plant and equipment
- C2.3 Deal with hazards
- C2.4 Contribute to effective working relationships in process engineering maintenance
- M2.1 Carry out planned maintenance procedures on mechanical process plant and equipment

Optional Units

3 units required, where 1 must be from Option A plus 2 further units from Option B:

Option A

- C2.5 Prepare work areas for the maintenance of process plant and equipment
- M2.2 Prepare materials for the maintenance of mechanical process plant and equipment
- M2.3 Prepare process plant and equipment in support of mechanical engineering activities
- C2.6 Prepare loads for moving
- C2.7 Move loads

Option B

- M2.4 Assemble components of mechanical process plant and equipment
- M2.5 Remove components from mechanical process plant and equipment
- M2.6 Replace components in mechanical process plant and equipment

Process Engineering Maintenance	Level 2 100/4829/7 (NVQ)	Level 2 G7MK22 (SVQ)
Pathway	Instrument & Control	Instrument & Control
Last Registration Date	31 st December 2010	31 st July 2011
Last Certification Date	31 st December 2012	31 st July 2013

Total Number of Units Required: 8

Mandatory Units

- C2.1 Reinststate the work area after completing the maintenance of process plant and equipment
- C2.2 Hand over process plant and equipment
- C2.3 Deal with hazards
- C2.4 Contribute to effective working relationships in process engineering maintenance
- I2.1 Carry out planned maintenance procedures on instrument and control plant and equipment

Optional Units

3 units required, where 1 must be from Option A plus 2 further units from Option B:

Option A

- C2.5 Prepare work areas for the maintenance of process plant and equipment
- I2.2 Prepare materials for the maintenance of instrument and control process plant and equipment
- I2.3 Prepare process plant and equipment in support of instrument and control engineering activities
- C2.6 Prepare loads for moving
- C2.7 Move loads

Option B

- I2.4 Assemble components of instrument and control process plant and equipment
- I2.5 Remove components from instrument and control process plant and equipment
- I2.6 Replace components in instrument and control process plant and equipment

Process Engineering Maintenance	Level 3 100/4830/3 (NVQ)	Level 3 G7MJ23 (SVQ)
Pathway	Electrical	Electrical
Last Registration Date	31 st December 2010	31 st July 2011
Last Certification Date	31 st December 2013	31 st July 2014

Total Number of Units Required: 12

Mandatory Units

- C3.1 Hand over process engineering plant and equipment
- C3.2 Reinstate the work area after completing the maintenance of process engineering plant and equipment
- C3.3 Minimize risks to life, property and the environment
- C3.4 Work safely, minimize risk and comply with emergency procedures
- C3.5 Contribute to effective working relationships
- E3.1 Carry out planned maintenance procedures on electrical plant and equipment
- E3.2 Deal with variations and defects in electrical plant and equipment
- E3.3 Diagnose and determine the causes of faults in electrical plant and equipment

Optional Units

4 units required where 2 must be from Option A plus 2 further units from Option B:

Option A

- C3.6 Prepare work areas for the maintenance of process engineering plant and equipment
- E3.4 Prepare equipment in support of electrical engineering activities
- E3.5 Prepare materials for the maintenance of electrical plant and equipment
- E3.6 Adjust electrical plant and equipment to meet operational requirements
- E3.7 Remove components from electrical plant and equipment
- E3.8 Replace components in electrical plant and equipment
- E3.9 Determine the feasibility of repair of components from electrical plant and equipment

Option B

- E3.10 Interpret detailed electrical information from technical sources
- E3.11 Read and extract information from electrical engineering drawings and specifications
- E3.12 Identify and suggest improvements to working practices and procedures on electrical plant and equipment
- E3.13 Establish that an electrical engineering process has been completed to specification
- E3.14 Test the performance and condition of electrical plant and equipment
- E3.15 Monitor the performance and condition of electrical plant and equipment
- E3.16 Assess the performance and condition of electrical plant and equipment
- E3.17 Inspect electrical plant and equipment

Process Engineering Maintenance	Level 3 100/4830/3 (NVQ)	Level 3 G7MG23 (SVQ)
Pathway	Mechanical	Mechanical
Last Registration Date	31 st December 2010	31 st July 2011
Last Certification Date	31 st December 2013	31 st July 2014

Total Number of Units Required: 12

Mandatory Units

- C3.1 Hand over process engineering plant and equipment
- C3.2 Reinstate the work area after completing the maintenance of process engineering plant and equipment
- C3.3 Minimize risks to life, property and the environment
- C3.4 Work safely, minimize risk and comply with emergency procedures
- C3.5 Contribute to effective working relationships
- M3.1 Carry out planned maintenance procedures on mechanical plant and equipment
- M3.2 Deal with variations and defects in mechanical plant and equipment
- M3.3 Diagnose and determine the causes of faults in mechanical plant and equipment

Optional Units

4 units required where 2 must be from Option A plus 2 further units from Option B:

Option A

- C3.6 Prepare work areas for the maintenance of process engineering plant and equipment
- M3.4 Prepare equipment in support of engineering activities
- M3.5 Prepare materials for the maintenance of mechanical plant and equipment
- M3.6 Adjust mechanical plant and equipment to meet operational requirements
- M3.7 Remove components from mechanical plant and equipment
- M3.8 Replace components in mechanical plant and equipment
- M3.9 Determine the feasibility of repair of components from mechanical plant and equipment

Option B

- M3.10 Interpret detailed mechanical information from technical sources
- M3.11 Read and extract information from mechanical engineering drawings and specifications
- M3.12 Identify and suggest improvements to working practices and procedures whilst maintaining mechanical plant and equipment
- M3.13 Establish that an engineering maintenance process has been completed to specification
- M3.14 Test and monitor the performance and condition of mechanical plant and equipment
- M3.15 Monitor the performance and condition of mechanical plant and equipment
- M3.16 Assess the performance and condition of mechanical plant and equipment
- M3.17 Inspect mechanical plant and equipment

Process Engineering Maintenance	Level 3 100/4830/3 (NVQ)	Level 3 G7ML23 (SVQ)
Pathway	Instrument & Control	Instrument & Control
Last Registration Date	31 st December 2010	31 st July 2011
Last Certification Date	31 st December 2013	31 st July 2014

Total Number of Units Required: 12

Mandatory Units

- C3.1 Hand over process engineering plant and equipment
- C3.2 Reinstate the work area after completing the maintenance of process engineering plant and equipment
- C3.3 Minimize risks to life, property and the environment
- C3.4 Work safely, minimize risk and comply with emergency procedures
- C3.5 Contribute to effective working relationships
- I3.1 Carry out planned maintenance procedures on instrument and control systems
- I3.2 Deal with variations and defects in instrument and control systems
- I3.3 Diagnose and determine the causes of faults in instrument and control systems

Optional Units

4 units required where 2 must be from Option A plus 2 further units from Option B:

Option A

- C3.6 Prepare work areas for the maintenance of process engineering plant and equipment
- I3.4 Prepare equipment required for maintaining instrument and control systems
- I3.5 Prepare materials required for maintaining instrument and control systems
- I3.6 Adjust instrument and control systems to meet operational requirements
- I3.7 Remove components from instrument and control systems
- I3.8 Replace components in instrument and control systems
- I3.9 Determine the feasibility of repair of components from instrument and control systems

Option B

- I3.10 Interpret detailed instrument and control information from technical sources
- I3.11 Read and extract information from instrument and control engineering drawings and specifications
- I3.12 Identify and suggest improvements to working practices and procedures whilst maintaining instrument and control systems
- I3.13 Establish that an engineering maintenance process has been completed to specification
- I3.14 Test the performance and condition of instrument and control systems
- I3.15 Monitor the performance and condition of instrument and control systems
- I3.16 Assess the performance and condition of instrument and control systems
- I3.17 Inspect instrument and control systems