



Summary of the:

SVQ in Process Engineering Maintenance (Instrument and Control) at SCQF  
Level 7  
GR45 47

**Who is this qualification for?**

This qualification is aimed at those who undertake work in the Process Engineering Maintenance working environment, specifically instrument and control plant and equipment, and has been developed from the relevant National Occupational Standards (NOS).

It is not expected that all working in these sectors will all carry out the same activities, so the qualification is structured to ensure that there is a high degree of flexibility in the choice of units, giving the opportunity to complete this qualification for a wide range of occupational roles and activities including both production and installation activities.

The standard covers the most important aspects of the job. This qualification is at SCQF level 7, completion of this qualification requires candidates to show they have the skills and knowledge to work unsupervised in completing their work and should also have the ability and experience to deal with problems that can occur.

**What is required from candidates?**

Candidates should achieve all 8 mandatory units listed below, plus a minimum of 2 of the optional units in Optional Group 1 and a minimum of 2 units from Optional Group 2.

Guidance on the evidence that will be acceptable is contained in the introduction to each unit.

Unit Number	Mandatory Units	Level	Credit Value
43	Carry out Planned Maintenance Procedures on Instrument and Control Systems	7	8
44	Deal with Variations and Defects in Instrument and Control Systems	7	6
45	Diagnose and Determine the Causes of Faults in Instrument and Control Systems	7	8
08	Handover Process Engineering Plant and Equipment	6	5
09	Reinstate the Work Area after Completing the Maintenance of Process Engineering Plant and Equipment	6	5
10	Minimise Risks to Life, Property and the Environment	6	7
11	Work Safely, Minimise Risk and Comply with Emergency Procedures	6	6
12	Contribute to Effective Working Relationships	6	2
<b>Group 1- Candidates must take a minimum of 2 units</b>			
13	Prepare Work Areas for Engineering Activities	6	7
46	Prepare Equipment Required for Maintaining Instrument and Control Systems	6	5
47	Prepare Materials Required for Maintaining Instrument and Control Systems	6	4
48	Adjust Instrument and Control Systems to meet Operational Requirements	7	6
49	Remove Components from Instrument and Control Systems	7	6
50	Replace Components in Instrument and Control Systems	7	6
51	Determine the Feasibility of Repair of Components from Instrument and Control systems	7	6
<b>Group 2 - Candidates must take a minimum of 2 units</b>			
52	Interpret Detailed Instrument and Control Information from Technical Sources	7	4
53	Read and Extract Information from Instrument and Control Engineering Drawings and Specifications	7	6
54	Identify and Suggest Improvements to Working Practices and Procedure Whilst Maintaining Instrument and Control Systems	7	6
55	Establish that an Instrument and Control Engineering Maintenance Process has been Completed to Specification	7	6

56	Test the Performance and Condition of Instrument and Control Systems	7	6
57	Monitor the Performance and Condition of Instrument and Control Systems	7	7
58	Assess the Performance and Condition of Instrument and Control Systems	7	6
59	Inspect Instrument and Control Systems	7	4

### Assessment Guidance

Evidence should show that the candidate can cover the scope of performance outlined for each relevant unit consistently over an appropriate period of time.

### Types of evidence:

Evidence of performance and knowledge is required. Evidence of performance should be demonstrated by activities and outcomes, and should be generated in the workplace only, unless indicated under potential sources of evidence (see below). Evidence of knowledge can be demonstrated through performance or by responding to questions.

### Potential sources of evidence:

The main sources of evidence for each unit will be observation of performance and questions to show underpinning knowledge. This can be supplemented by the following types of physical or documentary evidence:

- Work products
- Organisational documentation
- Audio/photographic/video
- Delivery records
- Witness testimony
- Professional Discussion
- Inspection reports
- Notes and memos
- Candidate statements
- Organisational reports
- Simulation of accident or emergency

**Please Note that photocopied or downloaded documents such as manufacturers' or industry guidance, H&S policies, Risk Assessments etc, are not normally acceptable evidence for GQA qualifications unless accompanied by a record of a professional discussion or Assessor statement confirming candidate knowledge of the subject. If you are in any doubt about the validity of evidence, please contact your GQA External Quality Advisor.**

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