

**Assessment Strategy for the
Chemical, Pharmaceutical, Bioscience, Nuclear, Oil and Gas, Petroleum and
Polymer Industries**

2003

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The Sector Skills Council for science-based industries

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Any amendments made to this Assessment Strategy by Cogent will be recorded above.

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1) Introduction

This Assessment Strategy presents a single overarching strategy for competence-based qualifications within the Cogent sector.

- a. The UKCG guidance on assessment strategies requires SSCs to develop strategic guidance on the principles which Awarding Bodies shall follow when designing and implementing N/SVQs in their sectors.
- b. With the introduction of the new 'Qualifications and Credit Framework' in England, Wales and Northern Ireland the scope of the Cogent Assessment Strategy has also been extended to include any competence related qualifications, approved within the QCF, with the following purpose:
 - To demonstrate that an individual has the necessary skills and/or knowledge to perform a given job role competently
 - To demonstrate that an individual has the necessary skills and/or knowledge to perform a specific function(s) or task(s) competently
- c. The requirements have been brought together in this single document in order to avoid repetition and they represent a key part of the assessment process.
- d. This strategy is supplemented by award-specific assessment requirements which identify appropriate forms of evidence for the particular competence being assessed.
- e. This assessment strategy shall apply to all new qualification frameworks and awards submitted after approval by UKCG.
- f. Awarding Bodies representing the four nations have all been involved with the development of this assessment strategy and provided supporting letters.
- g. Awarding Bodies will ensure that all practices related to assessment of Cogent S/NVQs will be conducted in accordance with the codes of practice and guidelines as set out in QCA's '*NVQ Criteria and Codes of Practice*' and SQA Accreditation's '*Approved Awarding Body Criteria (2007)*'
- h. This strategy is set out in terms of four components, each of which is given below. They are:
 - requirements for mandatory use of evidence from workplace performance;
 - aspects of the standards for which the use of simulation is to be permitted and design characteristics which those simulations must address;
 - definitions of the occupational competence requirements of assessors and verifiers; and
 - the recommended approach to external quality control.

2) Mandatory use of evidence from workplace performance

- i. Unless the use of simulation is expressly permitted within the qualification or unit specific evidence requirements, evidence must demonstrate the candidate's competence in a real or realistic environment.

j. Knowledge and Understanding will be assessed via (pre-set and/or free form) questions, or by inference from performance, which cover three primary types of knowledge:

- Knowledge of facts and procedures
- Understanding of principles, concepts and underpinning procedures
- How to apply principles and procedures in specific contexts

All questions must be asked by the assessor at appropriate moments throughout the assessment process, preferably linked to observed activity and/or review of documentary evidence. The questions asked of, and answers provided by, the candidate must be recorded.

k. In England and Wales, where the candidate is undertaking an NVQ within the context of an Apprenticeship/Foundation Modern Apprenticeship for which there is no Technical Certificate component the knowledge and understanding requirements must be separately assessed, recorded and evidenced. This must be done through the use of written question and answer evidence which is externally verified by the relevant Awarding Body. Alternative arrangements can be made for those candidates with special needs where appropriate. Examples of these Apprenticeships are L2 Apprenticeships/Foundation Modern Apprenticeship in Radiation Protection, Signmaking and Polymer Processing.

3) Use of Simulation

l. The qualification or unit specific assessment requirements will define where evidence from simulation is acceptable, and in which contexts. A full summary of these requirements for existing N/SVQs can be found in Appendix A.

m. The requirements for any new qualifications accredited to the QCF from August 2008 onwards will be added to Appendix B on an incremental basis.

n. Simulation, where permissible, may be used to provide evidence in two different scenarios:

Scenario 1 – (applicable to any competence related qualifications, including N/SVQs) in order to demonstrate particular competences/units that would be difficult or dangerous to demonstrate directly

Scenario 2 – (only applicable to NVQs) in order to demonstrate the acquisition of knowledge and skills where the achievement of a competence based qualification is not possible (e.g. as the basis for year 1 of an Advanced/Modern Apprenticeship – England and Wales only). This qualification would be Process Engineering Maintenance L2.

o. **Scenario 1 - Where simulation is used to demonstrate particular competences/units that would be difficult or dangerous to demonstrate directly (e.g. in dealing with emergencies).**

N.B. This scenario is applicable to any competence related qualifications, including N/SVQs.

Simulation should be used only where direct evidence of candidate performance cannot be obtained. Under these circumstances simulation may be used for summative assessment. Reasons for the use of simulation should be made clear to and agreed by the external verifier and should include the following details:

- which competence (and standards) the simulation was designed to assess;
- the kind of equipment, facilities and physical environment proposed for the simulation of performance. It is unlikely that the External Verifier will approve a simulation if it does not involve real plant and equipment;
- how the simulated activity relates to the candidate's normal work context in terms of the pressures of time, access to resources and access to information, and the communication media; and
- how the simulation was set up and conducted, preferably supported by physical evidence such as photographs or inspection of a test rig.

Assessors, internal verifiers and external verifiers should monitor the proportion of evidence generated via simulations to ensure that it is not the primary source of a candidate's claim to competence.

p. Under these circumstances simulations are reserved for aspects of competence illustrated by the following contexts:

- where demonstration of emergency shutdown and related safety procedures would be; **dangerous and/or disruptive** to plant/environment/individuals; **too costly** such as total plant shutdown or dealing with spillage of dangerous substances; where **issues of confidentiality** restrict access to real work opportunities;
- demonstrating specific aspects of the operation which rarely or never occur due to effective QA systems;
- the capacity to integrate disparate knowledge to cope with unforeseen events and to solve problems; or
- aspects of working relationships and communications for which no opportunity has presented for the use of naturally occurring workplace evidence of candidate performance.

q. Simulation must enable the individual to demonstrate competence in a real or realistic work environment. In this context this means in specialist centres which replicate the workplace in terms of equipment and environment, reflect normal working situations and use relevant industrial or commercial standards and procedures. Short work placements or non-realistic work environments which do not replicate the pressures and requirements of normal commercial or industrial activities will not be acceptable. The bulk of the candidate's evidence should be drawn from their normal working activity and not consist of artificially contrived opportunities for one-off demonstration of competence. Similarly equipment must be that used in current commercial and industrial contexts. Procedures and standards used should be those which are nationally or internationally recognised or devised by specific companies as standard operating procedure.

r. **Scenario 2 – Where simulation is used to demonstrate the acquisition of knowledge and skills where the achievement of a competence based**

qualification is not possible. In England and Wales, an apprentice who is registered on a Cogent Advanced Apprenticeship/Modern Apprenticeship may use simulation on the NVQ L2 Process Engineering Maintenance as part of the basic apprenticeship training. For any person completing this qualification that fails to complete the Advanced Apprenticeship/Modern Apprenticeship it will state on their completion certificate that this qualification was assessed in a simulated environment.

The development of the Cogent 'Community Apprenticeship' model has highlighted the need to make NVQ L2 Process Engineering Maintenance available for completion through a college or other training provider 'off-site'. This is to enable the candidate to begin acquiring the skills and knowledge required to work in the Cogent industries prior to undertaking the NVQ level 3 with an employer in the normal way. Under these circumstances simulation may be used, with the prior agreement of the External Verifier, for summative assessment across the whole qualification.

- s. Simulation must enable the individual to acquire his/her skills and knowledge in a realistic work environment. In this context this means in specialist centres which replicate the workplace in terms of equipment and environment, it reflects normal working situations and uses relevant industrial or commercial standards and procedures. Where possible providers should attempt to replicate the pressures and requirements of normal commercial or industrial activities. Equipment must be that used in current commercial and industrial contexts. Procedures and standards used should be those which are nationally or internationally recognised or devised by specific companies as standard operating procedure.
- t. Circumstances outside of scenarios 1 and 2 above may also be considered suitable for the use of simulation with the agreement of the External Verifier, Awarding Body and Sector Skills Council. Under these circumstances simulation may be used for formative assessment only.

4) Occupational competence of assessor and verifiers

u. Assessors:

- must be competent in the units they are assessing. This is shown through the assessor having achieved the award they are assessing OR providing quality evidence to the external verifier that they are able to make valid judgements of the competence of candidates. This could be done through a combination of a) personal interview, b) review of employment histories and/or c) examination of the assessor's judgement during assessments.
- must have a working knowledge of awards and a full understanding of that part of the award for which they have responsibility.
- should hold or be working towards suitable qualifications for assessment, as defined by the Qualification Regulator(s). Organisations should consult with the relevant awarding organisation regarding approval for exemptions.

v. Internal verifiers:

- must be either working in the appropriate sector itself OR they must be able to demonstrate they possess practical and up-to-date knowledge of current working practices appropriate to the sector in which they are carrying out verification practices; and
- must be appointed by an approved centre
- must have a working knowledge of the awards they are internally verifying
- should hold or be working towards suitable qualifications for verification, as defined by the Qualification Regulator(s). Organisations should consult with the relevant awarding organisation regarding approval for exemptions.

w. External Verifiers:

- must be familiar with the industry, and have an understanding of the technical processes and terminology used. The Awarding Body, through examination of relevant CV's and references, will confirm this.
- should hold or be working towards suitable qualifications for verification, as defined by the Qualification Regulator(s).

5) External Quality Control

- x. The external quality control of assessment is to be ensured, in this highly regulated and safety-critical sector, through the use of competent external verifiers.
- y. External quality control will be undertaken by one of two methods to be selected at the choice of the Awarding Body. These are:
- *Statistical Monitoring* in which the risk rating of centres is determined through the collection of a range data types. Awarding Bodies delivering the awards should provide arrangements for fulfilling these requirements.

OR

- *Enhanced External Verification* in which one critical unit (identified by the standards-setting body) is to be sampled at all external verification events. Where there have been no candidates assessed in a centre for this unit, the external verifier will duly record this fact. This enhanced external verification model will cover the evidence assessed by each assessor involved in the assessment of the safety-critical unit over a twelve month period.

Appendix A – Qualification-Specific Evidence Requirements

The following section provides a summary of the qualification-specific evidence requirements for the following qualifications:

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Level 2 NVQ in Bulk Liquid Warehousing

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Monitor and Maintain Equipment and Condition of Bulk Liquid Products	✓	
	Prepare Pipelines and Hoses	✓	
	Transfer Bulk Liquid Products	✓	
	Provide Product Control Information	✓	
	Establish and Maintain Effective Working Relationships	✓	
	Contribute to the Safety of Bulk Liquid Warehousing Operations		✓*
Optional	Management of Measurement Equipment	✓	
	Clean and Clear Bulk Liquid Storage Tanks	✓	
	Package Bulk Liquid Products	✓	

* Simulation is **only** suitable when:

- Reporting incidents, hazardous conditions and emergencies
- Contributing to the correction of incidents, hazardous conditions and emergencies

Level 1 S/NVQ in Chemical, Pharmaceutical and Petro-Chemical Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Core	Responding to incidents, hazardous conditions and emergencies		✓
	Handover	✓	
	Working effectively in a team	✓	
	Work safely	✓	
Option A	Produce by processing operation	✓	
	Receive goods and materials into storage	✓	
	Prepare process materials according to instructions	✓	
Option B	Packing the product by hand	✓	
	Maintain the quality of goods in storage	✓	
	Moving raw materials, intermediate and finished products to facilitate production	✓	
	Routine maintenance of plant and equipment	✓	
	Clean and prepare items of equipment for production and/or maintenance	✓	
	Work in aseptic or clean room conditions	✓	
	Filling and packing materials and products	✓	

Level 2 S/NVQ in Chemical, Pharmaceutical and Petro-Chemical Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Core	Responding to incidents, hazardous conditions and emergencies		✓
	Handover	✓	
	Working effectively in a team	✓	
	Identify and deal with hazards in the work environment		✓
Optional	Prepare for processing within chemical, pharmaceutical and petro-chemical operations	✓	
	Contribute to the improvement of routine working practices		✓
	Control, monitor and adjust the processing operation	✓	
	Complete processing operation	✓	
	Prepare process materials according to instructions	✓	
	Transfer materials into and between stages of production	✓	
	Clean and prepare complex items of plant and equipment for production	✓	
	Prepare integrated process systems for remote control operation	✓	
	Remotely control integrated process systems	✓	
	Prepare integrated process systems for remote shutdown	✓	
	Work in aseptic or clean room conditions	✓	
	Start the packaging operations	✓	
	End the packaging operations	✓	
	Ensure your own actions aim to protect the environment	✓	
	Maintain the condition of engineering assets	✓	
	Sample and test materials	✓	
	Separate and dispose of processing materials, by-products and wastes	✓	
	Enable learning through demonstrations and instruction	✓	

Level 3 S/NVQ in Chemical, Pharmaceutical and Petro-Chemical Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Core	Handover	✓	
	Working effectively in a team	✓	
	Emergency procedure		✓
Optional	Control room operations	✓	
	Prepare for complex processing operation	✓	
	Control, maintain and restore complex processing operation	✓	
	Complete complex processing operation	✓	
	Contribute to the maintenance of product quality	✓	
	Clean and prepare complex items of plant and equipment for production	✓	
	Ensure your own actions aim to protect the environment	✓	
	Solving process problems	✓	
	Enable individual learning through coaching	✓	
	Conduct an assessment of risks in the workplace	✓	
	Identify improvements to energy efficiency	✓	
	Control emergencies and critical situations in chemical, pharmaceutical and petro-chemical manufacture		✓
	Plan to maintain product integrity	✓	
	Allocate personnel to maintain processing	✓	
	Enable learning through demonstrations and instruction	✓	
Contribute to standard operating procedures	✓		

Level 4 S/NVQ in Chemical, Pharmaceutical and Petro-Chemical Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Core	Handover	✓	
	Working effectively in a team	✓	
	Emergency procedure		✓
Optional	Develop and monitor plans and procedures	✓	
	Solve operational problems	✓	
	Provide technical guidance and support to others	✓	
	Ensure your own actions aim to protect the environment	✓	
	Conduct an assessment of risks in the workplace	✓	
	Control emergencies and critical situations in chemical, pharmaceutical and petro-chemical manufacture		✓
	Allocate personnel to maintain processing	✓	
	Manage continuous quality improvement	✓	
	Implement quality assurance systems	✓	
	Provide advice and support for the development and implementation of quality systems	✓	
	Contribute to the commissioning and optimisation of new or modified plant, equipment and processes	✓	
	Respond to process problems	✓	
	Develop and update standard operating procedure/s	✓	
	Identify the scope for improvement in the way the organisation manages energy	✓	
	Provide advice on the development and implementation of energy policies	✓	
	Monitor and evaluate energy efficiency	✓	
Enable learning through demonstrations and instruction	✓		

Level 2 NVQ in Forecourt Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Contribute to Health and Safety within the Fuel Dispensing Area		✓*
	Develop and Maintain Positive Working Relationships with Forecourt Customers	✓	
	Contribute to the Security of the Forecourt Environment	✓	
	Process Payments for Purchases within the Forecourt Environment		✓
	Maintain Operational Effectiveness of Forecourt Equipment	✓	
Optional	Receive Deliveries of Motor Fuel	✓	
	Dispense Fuel to Customer Requirements	✓	
	Control Fuel Dispensing and Authorisation Equipment	✓	
	Prepare to Receive and Confirm Driver Controlled Deliveries of Motor Fuel	✓	

* Simulation is **only** suitable when:

- Taking emergency action

Level 3 SVQ in Measurement Processes

This qualification **is not suitable** for simulation under the circumstances set out on page 4 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 2 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Core	Perform Pre-Measurement Processes Operations	✓	
	Contribute to the Health and Safety of the Working Environment	✓	
	Establish and Maintain Effective Working Relationships in the Measurement Processes Environment	✓	
	Perform Post-Measurement Processes Operations	✓	
Optional	Inspect and Verify Gas Measurement Systems	✓	
	Inspect and Verify Liquid Measurement Systems	✓	
	Inspect and Verify Bulk Storage Measurement Systems	✓	
	Proving Operations	✓	

Level 2 NVQ in Nuclear Decommissioning

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Dismantle Contaminated Plant, Structures and Equipment Used Within Nuclear Facilities	✓	
	Minimise and Package Radioactive Waste	✓	
	Identify and Deal with Hazards and Risks		✓
	Undertake Decontamination Operations	✓	
	Control Personal Radiation Dose Uptake	✓	
	Provide Operational Monitoring Assistance	✓	
	Implement Safe Access Systems in a Radiation/Contamination Controlled Environment	✓	
	Prepare Engineering Equipment for use in a Radiation/Contamination Controlled Environment	✓	
	Contribute to Your Own Development	✓	
Optional	Prepare Alpha Radiation/Contamination Controlled Work Areas	✓	
	Prepare Beta/Gamma Radiation/Contamination Controlled Work Areas	✓	
	Assemble Equipment to Aid Nuclear Decommissioning	✓	
	Dismantle Equipment Used in Nuclear Decommissioning	✓	
	Carry Out Planned Preventative Maintenance Procedures on Equipment Used in Nuclear Decommissioning	✓	
	Adjust Equipment Used in Nuclear Decommissioning to Meet Operational Requirements	✓	
	Operate Remote Controlled Equipment for use in Nuclear Decommissioning	✓	
	Monitor Operational Radiological Conditions	✓	
	Check Radiological Monitoring Instruments and Equipment are in Good Order	✓	
	Prepare and Move Loads in Nuclear Installations	✓	

Level 3 NVQ in Nuclear Decommissioning

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Implement Safe Access Systems in a Radiation/Contamination Controlled Environment	✓	
	Contribute to Your Own Development	✓	
	Assess the Risks of Undertaking Radiation-Related Work Activities	✓	
	Contribute to Technical Leadership on Nuclear Decommissioning Activities	✓	
	Manage Your Own Resources	✓	
Optional	Supervise Radiation-Related Work Activities	✓	
	Provide Leadership for Your Team	✓	
	Ensure Health and Safety Requirements are Met in Your Area of Responsibility	✓	
	Allocate and Check Work in Your Team	✓	
	Enable Learning Through Demonstrations and Instruction	✓	
	Enable Individual Learning Through Coaching	✓	
	Manage a Project	✓	
	Hand Over Process Engineering Plant and Equipment	✓	
	Reinstate the Work Area After Completing the Maintenance of Process Engineering Plant and Equipment	✓	
	Deal with Variations and Defects in Mechanical Plant and Equipment	✓	
	Diagnose and Determine the Causes of Faults in Mechanical Plant and Equipment	✓	
	Deal with Variations and Defects in Electrical Plant and Equipment	✓	
	Diagnose and Determine the Causes of Faults in Electrical Plant and Equipment	✓	
	Deal with Variations and Defects in Instrument and Control Systems	✓	
Diagnose and Determine the Causes of Faults in Instrument and Control Systems	✓		

Level 2 SVQ in Offshore Deck Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Establish and Maintain Effective Relationships with Others	✓	
	Contribute to the Health and Safety of the Working Environment	✓	
	Carry Out Slings and Lifting for the Movement of Loads	✓	
	Contribute to Safety, Health and Environmental Protection	✓	
Optional	Contribute to Helicopter Handling Operations	✓	
	Contribute to Helicopter Refuelling Operations	✓	
	Carry Out General Cleaning Operations	✓	

Level 1 SVQ in Offshore Drilling Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Contribute to Safety, Health and Environmental Protection		✓
	Establish and Maintain Effective Working Relationships	✓	
Optional	Carry Out Slinging and Lifting for the Movement of Loads	✓	
	Maintain the Work Environment	✓	
	Support Drill Floor Operations	✓	
	Contribute to Helicopter Handling Operations	✓	
	Assist in the Prevention of Blowout Preventers (BOP's) and High Pressure Testing Operations	✓	
	Supply the Drill Floor Using Automated Racking Equipment	✓	
	Contribute to Helicopter Refuelling Operations	✓	
	Support Drilling Operations	✓	
	Carry Out Tripping Operations	✓	
	Contribute to Casing and Tubing Operations	✓	

Level 2 SVQ in Offshore Drilling Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Contribute to Safety, Health and Environmental Protection		✓
	Establish and Maintain Effective Working Relationships	✓	
	Prepare and Run the Drilling Fluid Conditioning Cleaning Systems	✓	
	Prepare and Run Mixing and Circulation Systems	✓	
	Carry Out Derrick Operations in Support of Drilling	✓	
Optional	Assist in the Preparation of Blowout Preventers (BOP's) and High Pressure Testing Operations	✓	
	Contribute to Casing and Tubing Operations	✓	

Level 3 SVQ in Offshore Drilling Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Contribute to Safety, Health and Environmental Protection		✓
	Control the Drilling Process	✓	
	Monitor Drilling Operations Against Requirements	✓	
	Provide Well Control		✓
	Manage Drilling Information for Action (based on MCI D1 1997)	✓	
	Contribute to the Management of Risks During Drilling Operations	✓	
	Control Drilling Emergencies and Critical Situations		✓
Optional	Contribute to the Development of Drilling Workforce and Working Relationships	✓	
	Contribute to the Organisation of Drilling Resources	✓	

Level 1 NVQ for Packaging Operators

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The use of high quality, realistic simulations, which impose pressures that are consistent with workplace expectations, should only be used in relation to the assessment of rare and/or dangerous occurrences, such as:

- Emergency scenarios
- Health, safety and the environment issues
- Rare operations at work
- The response to faults and problems for which no opportunity has presented for the use of naturally occurring workplace evidence of candidate competence

Simulations should be designed in relation to a realistic work environment i.e. a model environment, having an acceptable level of appropriate equipment and operating to professional standards. The realistic work environment should provide the opportunity for candidate assessment under conditions approximating as closely as possible to the workplace under the control of a qualified assessor.

The external verifier must formally approve the use of simulation to assess competence.

Level 2 NVQ for Packaging Operators

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The use of high quality, realistic simulations, which impose pressures that are consistent with workplace expectations, should only be used in relation to the assessment of rare and/or dangerous occurrences, such as:

- Emergency scenarios
- Health, safety and the environment issues
- Rare operations at work
- The response to faults and problems for which no opportunity has presented for the use of naturally occurring workplace evidence of candidate competence

Simulations should be designed in relation to a realistic work environment i.e. a model environment, having an acceptable level of appropriate equipment and operating to professional standards. The realistic work environment should provide the opportunity for candidate assessment under conditions approximating as closely as possible to the workplace under the control of a qualified assessor.

The external verifier must formally approve the use of simulation to assess competence.

Level 1 S/NVQ in Polymer Processing and Related Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Meet Safety, Health and Environmental Requirements in the Workplace		✓
	Establish and Maintain Effective Working Relationships	✓	
	Contribute to the Maintenance of Product Quality		✓
	Contribute to the Handover of Production Activities	✓	
Optional	Prepare Materials for Processing According to Instructions	✓	
	Maintain Stocks to Specified Levels	✓	
	Move Polymer Materials or Products	✓	
	Prepare for a Processing Operation	✓	
	Contribute to Machine-Based Processing Operation	✓	
	Carry Out a Hand-Based Processing Operation	✓	
	Finish Production Components	✓	
	Pack and Store Production Components	✓	
	Pick Polymer Stock and Make Up Orders	✓	

Level 2 S/NVQ in Polymer Processing and Related Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Meet Safety, Health and Environmental Requirements in the Workplace		✓
	Establish and Maintain Effective Working Relationships	✓	
	Contribute to the Efficiency and Effectiveness of Work	✓	
	Contribute to the Monitoring and Maintenance of Product Quality		✓
Optional	Prepare Materials for Processing According to Instructions	✓	
	Accept, Verify and Store Materials Required for Process Operations	✓	
	Inspect Products	✓	
	Prepare to Configure Processing Equipment	✓	
	Configure Processing Equipment	✓	
	Contribute to the Provision of Ancillary Systems	✓	
	Carry Out Simple Sampling Operations	✓	
	Carry Out Simple Testing Operations	✓	
	Assess Data and Produce Reports	✓	
	Contribute to the Improvement of Routine Working Practices	✓	
	Maintain the Condition of Process Equipment	✓	
	Carry Out Routine Servicing Procedures on Polymer Process Plant and Equipment	✓	
	Supply Materials Required for Process Operations	✓	

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
	Pick Polymer Stock and Make Up Orders	✓	
	Prepare to Start Up a Machine-Based Production Process	✓	
	Start Up and Maintain a Machine-Based Production Process	✓	
	Shutdown a Machine-Based Production Process	✓	
	Select and Prepare Used Products for Processing	✓	
	Prepare to Produce Products by Hand-Based Operations	✓	
	Produce Products Using Hand-Based Operations	✓	
	Finish Products	✓	
	Plan Polymer Processing Activities	✓	

Level 3 S/NVQ in Polymer Processing and Related Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Meet Safety, Health and Environmental Requirements in the Workplace		✓
	Contribute to the Efficiency and Effectiveness of Work	✓	
	Establish and Maintain Effective Working Relationships in Polymer Processing and Related Operations	✓	
	Contribute to the Continuous Improvement of the Business	✓	
Optional	Assess Data and Produce Reports	✓	
	Maintain the Condition of Process Equipment	✓	
	Carry Out Routine Servicing Procedures on Polymer Process Plant and Equipment	✓	
	Configure and Set Processing Systems to Meet Production Requirements	✓	
	Plan Polymer Processing Activities	✓	
	Optimise Standard Operations Which are Under Process Control	✓	
	Evaluate and Modify Processing Parameters to Meet Process Operations	✓	
	Carry Out Complex Manual Operations	✓	
	Evaluate and Adjust Manual Operations	✓	
	Carry Out Complex Sampling Operations	✓	
	Carry Out Testing Operations	✓	
	Provide Technical Support	✓	
	Lead the Work of Teams and Individuals to Achieve their Objective	✓	
	Rectify Process Problems		✓

Level 2 S/NVQ in Process Engineering Maintenance

This qualification **is suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Reinstate the work area after completing the maintenance of process plant and equipment	✓	
	Hand over process plant and equipment	✓	
	Deal with hazards		✓
	Contribute to effective working relationships in process engineering maintenance		✓
	Carry out planned maintenance procedures on electrical process plant and equipment	✓	
	Carry out planned maintenance procedures on mechanical process plant and equipment	✓	
	Carry out planned maintenance procedures on instrument and control plant and equipment	✓	
Option A	Prepare work areas for the maintenance of process plant and equipment	✓	
	Prepare loads for moving	✓	
	Move loads	✓	
	Prepare materials for the maintenance of mechanical process plant and equipment	✓	
	Prepare process plant and equipment in support of mechanical engineering activities	✓	
	Prepare materials for the maintenance of instrument and control process plant and equipment	✓	
	Prepare process plant and equipment in support of instrument and control engineering activities	✓	
	Prepare materials for the maintenance of electrical process plant and equipment	✓	
Prepare process plant and equipment in support of electrical engineering activities	✓		

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Option B	Assemble components of mechanical process plant and equipment	✓	
	Remove components from mechanical process plant and equipment	✓	
	Replace components in mechanical process plant and equipment	✓	
	Assemble components of instrument and control process plant and equipment	✓	
	Remove components from instrument and control process plant and equipment	✓	
	Replace components in instrument and control process plant and equipment	✓	
	Assemble components of electrical process plant and equipment	✓	
	Remove components from electrical process plant and equipment	✓	
	Replace components in electrical process plant and equipment	✓	

Level 3 S/NVQ in Process Engineering Maintenance

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Hand over process engineering plant and equipment	✓	
	Reinstate the work area after completing the maintenance of process engineering plant and equipment	✓	
	Minimise risks to life, property and the environment		✓
	Work safely, minimise risk and comply with emergency procedures		✓
	Contribute to effective working relationships		✓
	Carry out planned maintenance procedures on mechanical plant and equipment	✓	
	Deal with variations and defects in mechanical plant and equipment	✓	
	Diagnose and determine the causes of faults in mechanical plant and equipment	✓	
	Carry out planned maintenance procedures on instrument and control systems	✓	
	Deal with variations and defects in instrument and control systems	✓	
	Diagnose and determine the cause of faults in instrument and control systems	✓	
	Carry out planned maintenance procedures on electrical plant and equipment	✓	
	Deal with variations and defects in electrical plant and equipment	✓	
	Diagnose and determine the causes of faults in electrical plant and equipment	✓	
Option A	Prepare work areas for the maintenance of process engineering plant and equipment	✓	

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Option B	Prepare equipment in support of engineering activities	✓	
	Prepare materials for the maintenance of mechanical plant and equipment	✓	
	Adjust mechanical plant and equipment to meet operational requirements	✓	
	Remove components from mechanical plant and equipment	✓	
	Replace components in mechanical plant and equipment	✓	
	Determine the feasibility of repair of components from mechanical plant and equipment	✓	
	Prepare equipment required for maintaining instrument and control systems	✓	
	Prepare materials required for maintaining instrument and control systems	✓	
	Adjust instrument and control systems to meet operational requirements	✓	
	Remove components from instrument and control systems	✓	
	Replace components from instrument and control systems	✓	
	Determine the feasibility of repair of components from instrument and control systems	✓	
	Prepare equipment in support of electrical engineering activities	✓	
	Prepare materials for the maintenance of electrical plant and equipment	✓	
	Adjust electrical plant and equipment to meet operational requirements	✓	
	Remove components from electrical plant and equipment	✓	
	Replace components from electrical plant and equipment	✓	
	Determine the feasibility of repair of components from electrical plant and equipment	✓	
	Interpret detailed mechanical information from technical sources	✓	
Read and extract information from mechanical engineering	✓		

	Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
drawings and specifications		
Identify and suggest improvements to working practices and procedures whilst maintaining mechanical plant and equipment	✓	
Establish that an engineering maintenance process has been completed to specification	✓	
Test and monitor the performance and condition of mechanical plant and equipment	✓	
Monitor the performance and condition of mechanical plant and equipment	✓	
Assess the performance and condition of mechanical plant and equipment	✓	
Inspect mechanical plant and equipment	✓	
Interpret detailed instrument and control information from technical sources	✓	
Read and extract information from instrument and control engineering drawings and specifications	✓	
Identify and suggest improvements to working practices and procedures whilst maintaining instrument and control systems	✓	
Establish that an engineering maintenance process has been completed to specification	✓	
Test the performance and condition of instrument and control systems	✓	
Monitor the performance and condition of instrument and control systems	✓	
Assess the performance and condition of instrument and control systems	✓	
Inspect instrument and control systems	✓	
Interpret detailed electrical information from technical sources	✓	
Read and extract information from electrical engineering drawings and specifications	✓	
Identify and suggest improvements to working practices and procedures on electrical plant and equipment	✓	

	Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Establish that an electrical engineering process has been completed to specification	✓	
Test the performance and condition of electrical plant and equipment	✓	
Monitor the performance and condition of electrical plant and equipment	✓	
Assess the performance and condition of electrical plant and equipment	✓	
Inspect electrical plant and equipment	✓	

Level 1 S/NVQ in Processing Operations: Hydrocarbons

This qualification **is suitable** for simulation.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Contribute to the Health and Safety of the Working Environment		✓
	Assist with the Control of Emergencies and Critical Situations		✓
	Establish and Maintain Effective Working Relationships		✓
	Start Up and Shutdown a Process System		✓
	Monitor a Process System		✓

Level 2 S/NVQ in Processing Operations: Hydrocarbons

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Contribute to the Health and Safety of the Working Environment	✓	
	Contribute to the Control of Emergencies and Critical Situations		✓
	Establish and Maintain Effective Working Relationships	✓	
	Prepare Process Systems for Start Up	✓	
	Operate and Monitor Process Systems	✓	
	Prepare Process Systems for Shutdown	✓	
	Isolate and Reinstate Process Plant and Equipment	✓	

Level 3 S/NVQ in Processing Operations: Hydrocarbons

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Monitor and Maintain Health and Safety Systems	✓	
	Control Emergencies and Critical Situations		✓
	Create, Maintain and Enhance Productive Working Relationships	✓	
	Prepare Integrated Process Systems for Start Up	✓	
	Operate and Monitor Integrated Process Systems	✓	
	Prepare Integrated Process Systems for Shutdown	✓	
	Isolate and Reinstate Process Plant and Equipment	✓	

Level 3 S/NVQ in Processing Operations: Hydrocarbons (Control Room)

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Facilitate the Maintenance of Process Plant and Equipment	✓	
	Prepare Integrated Process Systems for Remote Control Operation	✓	
	Remotely Control Integrated Process Systems	✓	
	Prepare Integrated Process Systems for Remote Shutdown	✓	
	Monitor and Maintain Health and Safety Systems	✓	
	Control Emergencies and Critical Situations		✓
	Create, Maintain and Enhance Productive Working Relationships	✓	

Level 2 NVQ in Radiation Protection

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Respond to Radiation Incidents		✓
	Monitor Radiation Hazards	✓	
	Monitor Radiation Conditions During Work Activities	✓	
	Monitor People During Radiation-Related Work Activities	✓	
	Monitor Environmental Conditions During Radiation-Related Work Activities	✓	
	Test the Functioning of Radiation Protection Equipment	✓	
Optional	Undertake Radiation-Related Work Activities	✓	
	Record Information on Radiation Protection	✓	

Level 3 NVQ in Radiation Protection

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Implement Radiation Protection Policy	✓	
	Inspect the Operation of Radiation Protection Systems	✓	
	Implement Radiation Protection Systems	✓	
	Identify and Quantify Radiation Hazards in the Workplace	✓	
	Designate Work Areas to be Controlled	✓	
	Supervise Radiation-Related Work Activities	✓	
Optional	Specify Dosimetry for Radiation-Related Work Activities	✓	
	Monitor Radiation Doses During Radiation-Related Work Activities	✓	
	Assign Radiation-Related Work Activities to Colleagues	✓	
	Manage Information on Radiation Protection	✓	
	Deliver Radiation Protection Training Programmes	✓	
	Assess Colleagues Against Radiation Protection Requirements	✓	
	Authorise Colleagues to Undertake Radiation-Related Activities	✓	
	Respond to Radiation Incidents		✓
	Monitor Radiation Hazards	✓	

Level 4 NVQ in Radiation Protection

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Develop Radiation Protection Policy for an Organisation	✓	
	Develop Radiation Protection Systems	✓	
	Review Radiation Protection Systems	✓	
	Develop Contingency Plans for Responding to Radiation Incidents	✓	
	Liaise with Stakeholders on Nuclear Activities	✓	
	Provide Information and Advice on Radiation Protection	✓	
Optional	Assess the Risks of Undertaking Radiation-Related Work Activities	✓	
	Control Radiation-Related Work Activities	✓	
	Advise on the Classification of Radiation Workers	✓	
	Investigate Radiation Incidents		✓
	Design Radiation Protection Training Programmes	✓	
	Implement Radiation Protection Policy	✓	
	Inspect the Operation of Radiation Protection Systems	✓	

Level 3 S/NVQ in Refinery Field Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Contributing to the Safety of Refinery Operations	✓	
	Starting Up Equipment	✓	
	Monitoring and Maintaining Process and Equipment Conditions	✓	
	Responding to Incidents, Hazardous Conditions and Emergencies		✓
	Handling Non-Routine Information on Plant Condition	✓	
	Providing Samples for Analysis	✓	
	Shutting Down Equipment	✓	
	Provide On-Plant Instruction	✓	
	Prepare for Maintenance	✓	
Optional	Carrying Out Maintenance Within Agreed Scope of Authority	✓	
	Analysing Samples	✓	

Level 3 S/NVQ in Refinery Control Room Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Maintaining the Safety of Refinery Operations	✓	
	Commissioning Process Operations	✓	
	Controlling Process Operations	✓	
	Managing the Response to Incidents, Hazardous Conditions and Emergencies		✓
	Managing Process Condition Information	✓	
	Responding to Abnormal Process Conditions	✓	
	Shutting Down Process Operations	✓	

Level 2 S/NVQ in Signmaking

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Meet Safety, Health and Environmental Requirements in the Workplace	✓	
	Develop and Maintain Effective Working Relationships in Signmaking	✓	
	Provide Information about Sign Products	✓	
	Maintain the Quality of Sign Products	✓	
Optional A	Prepare for Sign Operations	✓	
	Maintain the Work Environment	✓	
	Prevent Damage During Transportation	✓	
	Finish and Complete Signage Operations	✓	
Optional B	Signage – Carry Out Shaping Operations	✓	
	Signage – Carry Out Joining Operations	✓	
	Signage – Carry Out Engraving Operations	✓	
	Signage – Carry Out Etching Operations	✓	
	Signage – Carry Out Hand Operations	✓	
	Signage – Carry Out Spray Paint Operations	✓	
	Signage – Carry Out Screen Print Operations	✓	
	Signage – Carry Out Self Adhesive Operations	✓	
	Signage – Carry Out Forming Operations	✓	

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
	Signage – Carry Out Installation Operation for Signage Operations	✓	
	Maintain Sign Products According to Procedures	✓	
	Produce Graphical Images using ICT	✓	
	Produce Traffic Signface Designs using Specific Computer Software	✓	
	Conduct Site Survey and Prepare Signage Within the Highway	✓	

Level 3 S/NVQ in Signmaking

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Monitor and Maintain Safety in the Workplace	✓	
	Create, Develop and Maintain Effective Working Relationships in Signmaking	✓	
	Receive, Interpret and Confirm Client Instructions	✓	
Optional	Prevent Damage During Transportation and Storage of Sign Products	✓	
	Assess Production Feasibility	✓	
	Prepare and Produce Quotations	✓	
	Set Up and Control Signage Operations	✓	
	Identify Non-Conformance and Recommend Action	✓	
	Plan and Maintain Production Process	✓	
	Plan Work Methods, Resources and Systems to Meet Installation Project Requirements	✓	
	Implement Works to Meet Installation Project Requirements	✓	
	Determine and Carry Out Maintenance of Sign Products	✓	
	Conduct Site Survey and Prepare Signage Within the Highway	✓	
	Signage – Produce Shaped Products	✓	
	Signage – Produce Joined Products	✓	
	Signage – Produce Engraved Products	✓	
Signage – Produce Etched Products	✓		

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
	Signage – Produce Hand Decorated Products	✓	
	Signage – Produce Spray Painted Products	✓	
	Signage – Produce Screen Printed Products	✓	
	Signage – Produce Self Adhesive Decorated Products	✓	
	Signage – Produce Formed Products	✓	
	Assemble and Dismantle Access Structures in Signmaking	✓	
	Specify and Produce Graphical Images Using ICT	✓	
	Establish and Develop Detailed Design Work	✓	
	Produce Traffic Signface Designs Using Specific Computer Software	✓	

Level 2 SVQ in Well Services: Electric Logging

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Perform Pre-Job (Electric Logging) Operations	✓	
	Run the (Electric Logging) Operation	✓	
	Perform Post-Job (Electric Logging) Operations	✓	
	Contribute to the Health and Safety of the Working Environment	✓	
	Contribute to the Control of Emergencies and Critical Situations		✓
	Establish and Maintain Effective Working Relationships	✓	
Additional	Use Pressure Control Equipment	✓	

Level 3 SVQ in Well Services: Electric Logging

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Contribute to Pre-Job (Electric Logging) Planning	✓	
	Control Offshore (Electric Logging) Operations	✓	
	Collect and Verify Logging Data	✓	
	Contribute to Post-Job (Electric Logging) Procedures	✓	
	Contribute to the Health and Safety of the Working Environment	✓	
	Control Emergencies and Critical Situations		✓
	Establish and Maintain Effective Working Relationships	✓	
Additional	Use Pressure Control Equipment	✓	

Level 2 SVQ in Well Services: Mechanical Wireline Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Contribute to the Health and Safety of the Working Environment	✓	
	Contribute to the Control of Emergencies and Critical Situations		✓
	Establish and Maintain Effective Working Relationships	✓	
	Perform Pre-Job (Mechanical Wireline) Operations	✓	
	Perform Post-Job (Mechanical Wireline) Operations	✓	
	Run the Operation	✓	

Level 2 SVQ in Well Services: Tubing Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Perform Pre-Job (Tubing) Operations	✓	
	Perform Post-Job (Tubing) Operations	✓	
	Contribute to the Health and Safety of the Working Environment	✓	
	Contribute to the Control of Emergencies and Critical Situations		✓
	Establish and Maintain Effective Working Relationships	✓	
Optional	Run the Coiled Tubing Operation	✓	
	Provide Fluids for the Operation	✓	
	Provide Nitrogen for the Operation	✓	

Level 2 SVQ in Water Management

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Maintain Health, Safety environment in Water Treatment		✓
	Utilise record keeping systems	✓	
Optional Group 2	Carry out water system survey	✓	
	Create water system diagrams	✓	
	Dose chemicals to water systems	✓	
	Sample from water systems	✓	
Optional Group 3	Adjust dosing and control equipment	✓	
	Analyse samples from water systems on site	✓	
	Assess the performance of water systems programme	✓	
	Carry out remedial works to water systems	✓	
	Carry out Legionella Risk Assessments and reviews	✓	
	Compare test results of water samples	✓	
	Handle non conformances	✓	
	Install water treatment equipment	✓	

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
	Monitor water system cleaning operations	✓	
	Monitor water treatment for closed water systems	✓	
	Monitor water treatment for domestic water systems	✓	
	Monitor water treatment for evaporating cooling systems	✓	
	Monitor water treatment for leisure pools	✓	
	Monitor water treatment for steam generation systems	✓	
	Service water treatment equipment	✓	
	Work effectively in a team	✓	

Level 3 SVQ in Water Management

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Maintain Health, Safety and environment in Water Treatment		✓
	Utilise record keeping systems	✓	
Optional Group 2	Assess performance of water systems programme	✓	
	Carry out water systems survey	✓	
	Create water system diagram	✓	
	Dose Chemicals to water	✓	
	Handle non-conformances	✓	
	Sample from water systems	✓	
	Supervise a team	✓	
Optional Group 3	Adjust dosing and control equipment	✓	
	Analyse samples from water systems on site	✓	
	Apply a water treatment programme for effluent treatment systems	✓	
	Apply a water treatment programme for closed water systems	✓	

	Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Apply a water treatment programme for domestic water systems	✓	
Apply a water treatment for leisure pools	✓	
Apply a water treatment programme for potable water systems	✓	
Apply a water treatment programme for water system cleaning operations	✓	
Carry out a review meeting in the water treatment industry	✓	
Carry out Legionella Risk Assessments and reviews	✓	
Commission water treatment equipment	✓	
Compare test results of water samples	✓	
Evaluate water treatment for evaporative cooling systems	✓	
Evaluate water treatment for process water systems	✓	
Evaluate water treatment for steam generation systems	✓	
Give presentations and demonstrations in the water industry		✓
Install water treatment equipment	✓	
Prepare, produce and present quotations and tenders for the water treatment industry		✓
Service water treatment equipment	✓	

L3 SVQ in Downstream Field Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Contributing to the Safety of Downstream Operations		✓
	Responding to Incidents, Hazardous Conditions and Emergencies in Downstream Operations		✓
	Work Effectively in a Team in Downstream Operations	✓	
	Starting Up Equipment in Downstream Operations	✓	
	Monitoring and Maintaining Process and Equipment Conditions in Downstream Operations	✓	
	Shutting Down Equipment in Downstream Operations	✓	
	Handling Non-Routine Information on Plant Condition in Downstream Operations	✓	
	Prepare for Maintenance in Downstream Operations	✓	
	Providing Samples for Analysis in Downstream Operations	✓	
Optional	Carrying Out Maintenance Within Agreed Scope of Authority in Downstream Operations	✓	
	Analysing Samples in Downstream Operations	✓	
	Provide On-Plant Instruction in Downstream Operations	✓	

L3 SVQ in Downstream Control Room Operations

This qualification **is not suitable** for simulation under the circumstances set out on page 7 for 'Scenario 2 Simulation'.

The table below provides a summary of those units/competences which can be simulated under the circumstances set out on page 5 for 'Scenario 1 Simulation'.

		Simulation of this unit/competence is not permitted	Simulation of this unit/competence is permitted
Mandatory	Provide On-Plant Instruction in Downstream Operations	✓	
	Maintaining the Safety of Downstream Operations		✓
	Commissioning Downstream Operations	✓	
	Controlling Process Operations in Downstream Operations	✓	
	Managing the Response to Incidents, Hazardous Conditions and Emergencies in Downstream Operations		✓
	Managing Process Condition Information in Downstream Operations	✓	
	Responding to Abnormal Process Conditions in Downstream Operations	✓	
	Shutting Down Process Operations in Downstream Operations	✓	
	Work Effectively in a Team in Downstream Operations	✓	
	Control Room Operations in Downstream Operations	✓	