



ETCAL Level 3 NVQ Diploma in Installation and Commissioning
601/7649/0
Structure

Qualification aim

This qualification is designed to support those learners training in Installation and Commissioning, however, it is also available for individuals who are not following an apprenticeship. It provides a structured individualised route with knowledge and skills for those who wish to achieve a qualification in Installation and Commissioning.

Qualification introduction

This qualification is made up of 4 mandatory units that will help learners to develop an understanding of the knowledge and skills required as relevant to their capabilities and aspirations. Its mandatory units form a foundation to extend the understanding and skills in specific areas through the optional routes. In addition to these, learners are required to achieve additional units selected from a suite of 5 Pathways and in accordance with the achievement definition. Learners who complete the qualification will be equipped with the knowledge and skills to underpin career development within the industry.

Assessment

In order to achieve this qualification a learner must complete all units as mandatory. The assessment criteria determine the standard required to achieve each unit and allow for a variety of assessment methods to be used as appropriate to the environment the qualification is delivered in. There is no examined assessment element in this qualification.

Achievement

Learners must achieve a minimum of 149 credits to gain the qualification. 35 credits must be achieved by completing the 4 mandatory units and the remaining credits achieved by completing the required optional units from the suite of Pathways.

Qualification Number		601/7649/0
Qualification Framework		RQF
Title		ETCAL Level 3 NVQ Diploma in Installation and Commissioning
Qualification Level		Level 3
Total Qualification Time		1490 TQT
Guided Learning Hours		301 GLH
Qualification Credit Value		149 Credits
Qualification Grading Structure		Pass / Fail

Unit Title	Mandatory/Optional	GLH	TQT	Credit Value	Grading
Mandatory Group – all four units must be completed					
Complying with Statutory Regulations and Organisational Safety Requirements	M	35		5	Pass/Fail
Using and Interpreting Engineering Drawings and Documents	M	25		5	Pass/Fail
Working Efficiently and Effectively in Engineering	M	25		5	Pass/Fail
Handing Over and Confirming Completion of Installation or Commissioning Activities	M	35		20	Pass/Fail
Equipment Installation - Must complete any one unit from the following:					
Installing Mechanical Equipment	O	224		118	Pass/Fail
Installing Electrical/Electronic Equipment	O	224		118	Pass/Fail
Installing Equipment to Produce an Engineered System	O	259		123	Pass/Fail
Installing Instrumentation and Control Equipment	O	196		115	Pass/Fail
Installing Fluid Power Equipment	O	196		115	Pass/Fail
Installing Process Controller Equipment	O	224		118	Pass/Fail
Installing Emergency Electrical Power Generation Equipment	O	182		114	Pass/Fail
Installing Environmental Pollution Control Equipment	O	182		114	Pass/Fail
Installing Workplace Environmental Control Equipment	O	224		118	Pass/Fail
Installing Heating and Ventilation Equipment	O	224		118	Pass/Fail
Installing Air Conditioning and Ventilation Equipment	O	224		118	Pass/Fail
Installing Compressed Air Equipment	O	182		114	Pass/Fail

Installing Waste/Foul Water Distribution Equipment	O	182		114	Pass/Fail
Installing Fresh Water Distribution Equipment	O	182		114	Pass/Fail
Installing Refrigeration Equipment	O	182		114	Pass/Fail
Commissioning - Must complete one of the following units:					
Commissioning Mechanical Equipment and Systems	O	224		118	Pass/Fail
Commissioning Electrical/Electronic Equipment and Systems	O	224		118	Pass/Fail
Commissioning Engineered Systems	O	259		123	Pass/Fail
Commissioning Process Controller Equipment and Systems	O	224		118	Pass/Fail
Commissioning Instrumentation and Control Equipment and Systems	O	196		115	Pass/Fail
Commissioning Fluid Power Equipment and Systems	O	196		115	Pass/Fail
Commissioning Emergency Electrical Power Generation Equipment and Systems	O	182		114	Pass/Fail
Commissioning Environmental Pollution Control Equipment and Systems	O	182		114	Pass/Fail
Commissioning Workplace Environmental Control Equipment and Systems	O	224		118	Pass/Fail
Commissioning Heating and Ventilation Equipment and Systems	O	224		118	Pass/Fail
Commissioning Air Conditioning and Ventilation Equipment and Systems	O	224		118	Pass/Fail
Commissioning Compressed Air Equipment and Systems	O	182		114	Pass/Fail
Commissioning Waste/Foul Water Distribution Equipment and Systems	O	182		114	Pass/Fail
Commissioning Fresh Water Distribution Equipment and Systems	O	182		114	Pass/Fail
Commissioning Refrigeration Equipment and Systems	O	182		114	Pass/Fail
Traction Lift Installation - Must complete all of the following units:					
Carrying Out Fault Diagnosis on Lift Installations	O	60		50	Pass/Fail
Measuring and Setting Out Lift Installations	O	63		23	Pass/Fail
Installing Lift Well and Ancillary Equipment	O	84		25	Pass/Fail
Installing Traction Lift Equipment	O	84		25	Pass/Fail
Installing Lift Ropes and Chains	O	84		25	Pass/Fail
Installing Lift Doors, Frames and Ancillary Components	O	84		25	Pass/Fail
Checking and Setting Lift Installations	O	77		25	Pass/Fail

Hydraulic Lift Installation - Must cover all of the following units:					
Carrying Out Fault Diagnosis on Lift Installations	O	60		25	Pass/Fail
Measuring and Setting Out Lift Installations	O	63		25	Pass/Fail
Installing Lift Well and Ancillary Equipment	O	84		25	Pass/Fail
Installing Lift Ropes and Chains	O	84		25	Pass/Fail
Installing Lift Doors, Frames and Ancillary Components	O	84		25	Pass/Fail
Checking and Setting Lift Installations	O	77		25	Pass/Fail
Installing Hydraulic Lift Equipment	O	84		25	Pass/Fail
Escalator Installation and Commissioning - Must complete all of the following units:					
Carrying Out Fault Diagnosis on Escalator Installations	O	60		50	Pass/Fail
Installing Escalator Equipment	O	161		33	Pass/Fail
Commissioning Escalator Installations	O	182		100	Pass/Fail