ETCAL Level 1 NVQ Certificate in Performing Engineering Operations 601/1793/X

Structure

Qualification aim

This qualification is designed to support those learners training in Performing Engineering Operations, 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 Performing Engineering Operations.

Qualification introduction

This qualification is made up of 3 mandatory units that will help learners to develop an understanding of the available and 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 optional units 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 22 credits to gain the qualification. 11 credits must be achieved by completing the 3 mandatory units and the remaining credits achieved by completing the required optional units.

Qualification Number		601/1793/X
Qualification Framework		RQF
Title		ETCAL Level 1 Certificate in Performing Engineering Operations
Qualification Level		Level 1
Total Qualification Time		220 TQT
Guided Learning Hours		160 GLH
Qualification Credit Value		22 Credits
Qualification Grading Structure		Pass / Fail

Unit Title	Mandatory/Optional	GLH	TQT	Credit Value	Grading
Mandatory units: All three units must be completed					
Working Safely in an Engineering Environment	M	33		5	Pass/Fail
Carrying Out Engineering Activities Efficiently and Effectively	M	22		3	Pass/Fail
Using and Communicating Technical Information	M	22		3	Pass/Fail
Optional Units: **Any two units must be completed**					
Making Components using Hand Tools and Fitting Techniques	O	63		10	Pass/Fail
Assembling Mechanical Components	O	63		10	Pass/Fail
Carrying Out Pipe Fitting Activities	O	63		10	Pass/Fail
Using Lathes for Turning Operations	O	63		10	Pass/Fail
Using Milling Machines	O	63		10	Pass/Fail
Using Grinding Machines	O	63		10	Pass/Fail
Carrying Out Routine Servicing of Mechanical Equipment	O	63		10	Pass/Fail

Assembling Fluid Power Equipment	O	63		10	Pass/Fail
Carrying Out Sheet Metal Cutting, Forming and Assembly Activities	O	63		10	Pass/Fail
Cutting and Shaping Platework Components	O	63		10	Pass/Fail
Using Oxy-Fuel Gas Cutting Equipment	O	63		10	Pass/Fail
Using Manual Metal Arc Welding Equipment	O	63		10	Pass/Fail
Using Manual TIG Welding Equipment	O	63		10	Pass/Fail
Using Manual MIG or MAG Welding Equipment	O	63		10	Pass/Fail
Using Manual Oxy-Fuel Gas Welding Equipment	O	63		10	Pass/Fail
Using Manual Flame Brazing and Soldering Equipment	O	59		9	Pass/Fail
Wiring Electrical Equipment and Circuits	O	63		10	Pass/Fail
Assembling Electrical Wiring Support Systems	O	63		10	Pass/Fail
Assembling and Wiring Electrical Panels	O	63		10	Pass/Fail
Assembling Electronic Circuits	O	63		10	Pass/Fail
Carrying Out Routine Servicing on Electrical/Electronic Equipment	O	63		10	Pass/Fail
Making Components from Wood-Based Materials	O	63		10	Pass/Fail
Assembling Engineering Woodwork Components	O	59		9	Pass/Fail
Carrying Out Composite Moulding Activities	O	63		10	Pass/Fail
Assembling Composite Components	O	59		9	Pass/Fail
Preparing Sand for Moulding and Coremaking	O	38		5	Pass/Fail

Making Sand Moulds and Cores for Casting	O	63		10	Pass/Fail
Manually Casting Components	O	59		9	Pass/Fail
Fettling Cast Components	O	45		6	Pass/Fail
Applying Coatings or Coverings to Finish Surfaces	O	49		7	Pass/Fail
Applying Surface Treatments	O	49		7	Pass/Fail
Applying Heat Treatment to Engineering Materials	O	49		7	Pass/Fail
Hand Forging Engineering Materials	O	49		7	Pass/Fail