



Level 3 NVQ Diploma In

Engineering Woodworking, Pattern and Model Making

Qualification Specification

Overview

This qualification is a National Vocational Qualification (NVQ). It involves the skills and knowledge needed for occupations in Engineering Woodworking, Pattern and Model Making including the ability to organise work and identify and prevent problems.

Typical Job

Facilitates progression onto further study.

Qualification code:	600/0746/1
Level:	3
Total qualification time:	1060
Guided learning hours:	309min; 596max
Credits:	106
Minimum age	16

Issue 1.0

Purpose of this qualification

This qualification is a National Vocational Qualification (NVQ). It involves the skills and knowledge needed for occupations in Engineering Woodworking, Pattern and Model Making including the ability to organise work and identify and prevent problems. NVQ's are based on national occupational standards, which the learner must meet to be competent in a task. The achievement of NVQ's will encourage an employee to value their contribution to the workplace, and it will develop their skills and potential within the Engineering Woodworking, Pattern and Model Making field.

This qualification is not graded, it is Pass/Fail.

Who is this qualification for?

- Individuals who need recognition of their competence in one or more of a wide variety of Engineering Woodworking, Pattern and Model Making activities and need a nationally recognised qualification at level three,
- Learners who are undertaking a SEMTA apprenticeship and wish to progress onto an advanced apprenticeship,
- Those who are working in an Engineering Woodworking, Pattern and Model Making environment and would like to work towards a relevant Level 3 qualification,
- Those who are new to Engineering Woodworking, Pattern and Model Making but are looking for a career change and wish to develop new skills within the industry.

What does this qualification cover?

The skills and knowledge in one or more of a wide variety of Engineering Woodworking, Pattern and Model Making activities including:

- Engineering Woodworking,
- Pattern/Model Making.

Entry Requirements

There are no entry qualifications or age limits required by learners to undertake this qualification unless this is a legal requirement of the process or the environment. Assessment is open to any learner who has the potential to achieve the assessment criteria set out in the assessment routes.

How is this qualification assessed?

Performance evidence must be the main form of evidence gathered. In order to demonstrate consistent competent performance for a unit, a minimum of three different examples of performance of the unit activity will be required.

It is recommended that where possible evidence is gathered holistically and that the assessment evidence for the mandatory units is gathered during the performance of the optional units. Evidence should be obtained as a whole, where practically possible, since competent performance in the optional assessment routes is often dependent on competence in the mandatory assessment routes.

Learners are not required to complete an exam for this qualification.

How is this qualification delivered?

Competence based qualifications are undertaken in the learner's workplace.

Structure

This qualification has **316 Guided Learning Hours (GLH)**, and **106 Credits**. It has a **Total Qualification Time (TQT)** of **1060** hours which is the notional time required by the learner to complete the qualification.

Pathway EWA: Engineering Woodworking

Mandatory assessment routes: All three assessment routes must be completed:

EAL code	Assessment route title	Level	Credit value	Guided learning hours	Ofqual code
QEW2/001	Complying with Statutory Regulations and Organisational Safety Requirements	2	5	35	A/601/5013
QEW2/002	Using and Interpreting Engineering Data and Documentation	2	5	25	Y/601/5102
QEW3/003	Working Efficiently and Effectively in Engineering	3	5	25	K/601/5055

Optional assessment routes: All the following assessment routes must be taken:

QEW3/004	Marking Out Wood and Composite Materials	3	21	63	D/502/9315
QEW3/005	Producing Components Using Woodworking Machines	3	55	98	K/502/9317
QEW3/006	Producing and Finishing Components Using Woodworking Hand Tools	3	70	126	T/502/9319

Plus one assessment route from the following:

QEW3/007	Carrying Out Wood Turning Operations	3	60	133	K/502/9320
QEW3/008	Assembling Engineering Woodwork	3	35	77	M/502/9321
QEW3/009	Applying Surface Finishes to Woodwork Components and Structures	3	30	49	T/502/9322
QEW3/010	Installing Woodwork Structures, Furniture and Fittings	3	40	91	A/502/9323

Pathway EWB: Pattern/Model Making

Mandatory assessment routes: All three assessment routes must be completed

EAL code	Assessment route title	Level	Credit value	Guided learning hours	Ofqual code
QEWP2/001	Complying with Statutory Regulations and Organisational Safety Requirements	2	5	35	A/601/5013
QEWP2/002	Using and Interpreting Engineering Data and Documentation	2	5	25	Y/601/5102
QEWP3/003	Working Efficiently and Effectively in Engineering	3	5	25	K/601/5055

Optional assessment routes: Three of the following assessment routes must be taken:

QEWP3/011	Marking Out Pattern, Corebox or Model Components	3	21	56	F/502/9324
QEWP3/012	Producing Pattern, Corebox or Model Components Using Woodworking Machines	3	60	91	J/502/9325
QEWP3/013	Producing Pattern, Corebox or Model Components Using Metalwork Machines	3	60	119	L/502/9325
QEWP3/014	Producing Pattern, Corebox or Model Components Using Woodworking Hand Tools	3	70	119	A/502/9340
QEWP3/015	Producing Pattern, Corebox or Model Components Using Hand Fitting Techniques	3	70	154	R/602/9327
QEWP3/016	Producing Pattern, Corebox or Model Components by FRP Moulding	3	60	119	Y/502/9328
QEWP3/017	Assembling Wood/Composite Pattern, Corebox or Model Components	3	35	84	D/502/9329
QEWP3/018	Assembling Metal Pattern, Corebox or Model Components	3	35	84	R/502/9330
QEWP3/019	Producing Pattern, Corebox or Model Components Using Cast Resin Techniques	3	60	119	Y/502/9331
QEWP3/020	Proving Patterns, Coreboxes or Models	3	40	91	D/502/9332

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Optional assessment routes: Three of the following assessment routes must be taken:

QEWP3/023	Setting CNC Machine Tools for Operation	3	70	126	H/502/9333
QEWP3/024	Programming CNC Machines to Produce Pattern or Model Components	3	84	231	K/502/9334
QEWP3/025	Producing Pattern, Corebox or Model Components using NC/CNC Machines	3	63	112	M/502/9335
QEWP3/027	Producing Components by Rapid Prototyping Techniques	3	35	84	T/502/9336
QEWP3/028	Modifying and Repairing Pattern, Corebox or Model Equipment	3	35	91	A/502/9337
QEWP3/029	Producing Pattern, Corebox or Model Components Using Flexible Composite Materials	3	40	91	F/502/9338

