



# Level 4 Diploma in Engineer Surveying

# ENGINEERING

## Qualification Specification

### Overview

This qualification allows the learner to develop the skills to carry out the activities and responsibilities of an Engineer Surveyor. These include carrying out thorough examinations and inspections of plant, machinery, installations and associated equipment as is necessary to determine their condition and specifically regarding their continued safe use. It is designed to fulfil the criteria of a 'competent person' and provide 'competence' to undertake the statutory thorough examinations and inspections required.

### Typical Job

Engineer Surveyor

Qualification code:	603/5383/1
Level:	4
Total qualification time (Hours):	770
Guided learning hours:	390
Minimum learning age:	19

Issue 1.0

## Purpose of the qualification

This qualification allows the learner to develop the skills to carry out the activities and responsibilities of an Engineer Surveyor.

These include carrying out thorough examinations and inspections of plant, machinery, installations and associated equipment as is necessary to determine their condition and specifically regarding their continued safe use. It is designed to fulfil the criteria of a 'competent person' and provide 'competence' to undertake the statutory thorough examinations and inspections required under the Health and Safety at Work etc. Act 1974 and Health and Safety Regulations.

In addition, this qualification is designed to meet the standards required for competency of employees of inspection companies who seek or have accreditation to ISO/IEC 17020 Conformity assessment – Requirements for the operation of various types of bodies performing inspection. This also includes the basic competency requirements for personnel who carry out inspections as part of the certification of products to the appropriate product regulations and European Directives and employees of notified bodies accredited to ISO/IEC 17065 Conformity assessment – Requirements for bodies certifying products, processes and services.

## Who is this qualification for?

Learners engaged in engineer inspection and examination activities, whether this is as an employee of an independent inspection company, company carrying out inspections 'in house' for their own plant and machinery, or as individuals and contractors.

## Grading criteria

This qualification is graded Pass or Refer.

## Who supports this qualification?

This qualification:

- Is regulated by Ofqual at Level 4.
- Has been developed by the Safety Assessment Federation, the trade association representing the independent inspection industry, consulting with industry sectors and other strategic stakeholders.

## What could this qualification lead to?

Successful achievement of the qualification would enable learners to apply for opportunities as an engineer surveyor with an inspection company or in the inspection field of work.

## Entry requirements

Learners should have relevant engineering experience, maturity and credibility. The qualification assumes that on entry the learner has undertaken training to achieve qualifications and credits to a specified minimum standard. This will be assessed using common criteria involving an audit of the qualifications and relevant engineering experience and training together with a professional interview to assess the learner's ability.

## What does this qualification cover?

This qualification is delivered in the following **2** disciplines:

- Mechanical
- Electrical

This qualification has **5** mandatory units covering:

- Plan and Organise Inspections for Engineer Surveyors
- Communication and Presentation Skills for Engineer Surveyors
- Identify and Apply Professional Ethics and Values
- Understanding Legislation, Standards and Industry Guidance relevant to Engineering Inspections
- Reporting for Engineer Surveyors

In addition learners will choose one discipline specific pathway:

Mechanical **OR** Electrical

## How is the qualification achieved?

This qualification is gained when all the necessary units have been achieved. The centre will then be able to apply for the learner's Diploma. The learner will also receive a Certificate of Unit Credit, listing all the units they have achieved.

However if they don't manage to complete the full qualification learners can still claim a Certificate of Unit Credit for the units achieved therefore, they still have proof of their ability and could complete the qualification at a later date.

Units can also be taken individually (stand-alone). This is particularly relevant for Engineer Surveyors who have gained the qualification in one discipline and wish to add another discipline to their qualification (see above). The qualification manual must be used in conjunction with the delivery and assessment of any individual units to ensure that assessment requirements and methodologies are consistently applied.

## What will be assessed?

All learning outcomes of the qualification must be assessed. Centres should also maintain an assessment and feedback record for each learner, which details the evidence evaluated against the learning outcome and the feedback given to the learner.

Evidence of the assessment criteria being met includes:

- Products of work,
- Observation,
- Written assessment,
- Practical assessment,
- Period of monitoring,
- Professional discussion,
- Portfolio of Evidence,
- Witness testimony,
- Professional Reports.

## How will it be assessed?

The qualification is assessed by Centre set and Centre marked knowledge and practical assessments. The assessments involve collecting and evaluating evidence that demonstrates achievement of the learning outcomes in the units. The internal assessments are accompanied by marking criteria and other material to ensure that the delivery team is consistent in their approach to internal assessment across learners. The Centre is responsible for ensuring that internal assessment is suitably controlled to ensure that assessment decisions are valid and reliable and that work submitted for assessment by learners is prepared and produced by them independently, without assistance from others and free of plagiarism.

## Structure

### EAL Level 4 Diploma in Engineer Surveying

This qualification will be obtained by the learner once they have completed the **five** mandatory units and **one** discipline specific pathway.

The qualification has **390 Guided Learning Hours** and a **Total Qualification Time of 770 hours**.

Mandatory units: ***All** units must be completed.*

Unit	Unit title	Level	GLH	Ofqual Code
ESC-002	Plan and Organise Inspections for Engineer Surveyors	4	75	H/615/2916
ESC-003	Communication and Presentation Skills for Engineer Surveyors	4	25	M/615/2918
ESC-004	Identify and Apply Professional Ethics and Values	5	60	K/615/2920
ESC-005	Understanding Legislation, Standards and Industry Guidance relevant to Engineering Inspections	5	50	A/615/2923
ESC-008	Reporting for Engineer Surveyors	4	50	R/615/2927

**Learners must complete one pathway:**

#### Pathway A: Mechanical

Unit	Unit title	Level	GLH	Ofqual Code
ESC-006	Inspection Procedures for Engineer Surveyors	4	30	J/615/2925
ESC-007	Defect Identification and Classification for Engineer Surveyors	5	100	L/615/2926

#### Pathway B: Electrical

Unit	Unit title	Level	GLH	Ofqual Code
ESC-006	Inspection Procedures for Engineer Surveyors	4	30	J/615/2925
ESC-007	Defect Identification and Classification for Engineer Surveyors	5	100	L/615/2926

