



# Advanced Manufacturing and Engineering

## Foundation Phase Gateway Assessment

### Assessment Specification

#### Overview

The Foundation Phase Gateway Assessment is intended to assess the apprentice's individual ability to apply the skills, knowledge and behaviours they have learnt and developed within the foundation phase of their apprenticeship. This qualification will not assess competence as this will have already been assessed as part of the Foundation Phase Competency Qualification.

#### Typical Job

Mechatronic Maintenance Technician, Product Design & Development Technician/Engineer

Assessment code: 601/9035/8  
Level: 2

Guided learning hours: 21 Hrs  
Minimum learning age: 16

Issue: 1.5



## Purpose of qualification

### What is this assessment?

This assessment will assess the apprenticeships knowledge, skills and behaviours that they have gained during the completion of the foundation phase of their apprenticeship, the apprenticeship standards that this assessment relates to is: Level 3 Mechatronics Maintenance Technician or Level 3 Product Design and Development Technician standards and has been approved by the Advanced Manufacturing and Engineering Sector employer groups which is made up a range of employers, providers and professional institutions. The qualification focuses on the Skills, knowledge and behaviours required to ensure the apprentice is ready for advancement to the Development phase of their apprenticeship. This arrangement ensures that the apprentice can apply the knowledge, skills and behaviours they have developed during the foundation phase of their apprenticeship within a simulated working environment which will cover some of the situations that they could face within the occupational sector in which the development phase will be delivered.

The assessment will be based on a range of units that the apprentice has completed as part of their foundation phase competency qualification.

### What does this assessment cover?

The content and structure of this assessment has been developed to provide the specific level of skills, knowledge and behaviours required to be achieved and assessed to allow the apprentice to apply the knowledge, skills and behaviours they have developed within the foundation phase of their apprenticeship.

The qualification Units are listed in Section 3.

This assessment is at level 2 and has a total assessment time of a 21hrs (this is based on the assessment being carried out over three seven hour days).

### Who is this qualification for?

- Learners who have completed the relevant competency and knowledge requirements of the foundation phase of the following apprenticeship standards: Mechatronics Maintenance Technician or Product Design and Development Technician
- Learners who are working towards a relevant apprenticeship standard
- Learners who are looking to advance to the development phase of a relevant apprenticeship standard

## Who supports the assessment?

This assessment is:

- Regulated at level 2
- Supported by SEMTA
- Supported by Advanced manufacturing and Engineering Sector.

## What could this assessment lead to?

### Typical job roles include:

Mechatronic Maintenance Technician, Product Design & Development Technician.

This assessment will provide progression onto the development phase of the relevant apprenticeship standard.

## Entry requirements

Apprentices must be at least 16 years old. Apprentices must have completed the relevant competency and knowledge qualification requirements before starting this assessment; centres should ensure that the apprentices have the potential to achieve this assessment. Apprentices must have the minimum levels of literacy and numeracy to complete this assessment.

Centres should make apprentices with particular requirements aware of the content of the assessment and they should be given every opportunity to successfully complete the assessment. EAL will consider any reasonable suggestions for, and from, those with disabilities that would help them to achieve the requirements of this assessment without compromising the standards required.

## How is the assessment achieved?

The qualification is achieved when all the necessary practical tasks have been completed and the apprentices have met the required level of knowledge, skills and behaviours set out in the marking guide supplied by EAL. The centre will then be able to apply for the apprentices certificate of achievement. The learners will also receive a certificate of unit credit, listing all the units they have achieved.

## What will be assessed?

To achieve this Foundation Phase Gateway Assessment the apprentice must demonstrate they have met the required marks allocated for each of the following assessment criteria:

- Health and Safety (assessed across all activities)
- Behaviours (assessed across all activities)
- Planning, Preparation and Performance of Practical activities (assessed across all activities)

## Grading Criteria

This assessment is not graded, learners can achieve a Pass, Fail or be Referred.

To achieve a pass learners must be able to demonstrated their ability to apply the knowledge, skills and behaviours that they have developed during the foundation phase of their apprenticeship.

## How will it be assessed?

The Foundation Phase Gateway Assessment comprises a practical scenario/s and a set of related tasks.

The scenario/s will be based on a typical situation that is likely to occur in the workplace. The tasks will provide explicit instructions about the activities that the apprentice will need to complete in a way that demonstrates skills, knowledge and behaviours they have learnt and developed within the foundation phase of their apprenticeship.

The scenario/s and related tasks have been developed from a range of optional units used within the foundation phase competence qualification, the three units selected for the foundation phase gateway assessment must align to the units that the apprentice has completed as part of the foundation phase of their apprenticeship.

The scenario/s and related tasks will be developed by the centre using the task specifications supplied by EAL.

## Structure

This assessment can be achieved by the apprentice completing the relevant practical tasks for three of the following units:

**Optional Units:** A minimum of three optional units must be completed from the following:

Unit	Unit title	GL (hrs)	Ofqual Code
FGA2-001	Producing components using hand fitting techniques	7	Y/508/5902
FGA2-002	Maintaining mechanical devices and equipment	7	D/508/5903
FGA2-003	Maintaining fluid power equipment	7	H/508/5904
FGA2-004	Maintaining electrical equipment/systems	7	M/508/5906
FGA2-005	Wiring and testing electrical equipment and circuits	7	A/508/5908
FGA2-006	Wiring and testing programmable controller based systems	7	F/508/5909
FGA2-007	Producing mechanical assemblies	7	T/508/5910
FGA2-008	Assembling and testing electronic circuits	7	A/508/5911
FGA2-009	General turning, milling and welding applications	7	F/508/5912
FGA2-010	Wiring and testing vehicle electrical equipment and circuits	7	J/508/5913
FGA2-011	Stripping and rebuilding vehicle engines	7	R/508/5915
FGA2-012	Preparing and using lathes for turning operations	7	M/617/7379
FGA2-013	Preparing and using milling machines	7	H/617/7380
FGA2-014	Preparing and proving CNC machine tool programs	7	K/617/7381

