

Engineering Fitter (Manufacture) Apprenticeship Standard



Sector	Advanced Manufacturing (England) EAL
Level	3
Guided Learning Hours (Off the Job)	750 hours = Development Knowledge (KSB's)
Total Course length	39 Months = plus 6 months for end point assessment
Minimum age of learner	16 years
Cost / Funding	£21,000 (£0 age 18 under / 5% £1050 age 19+)

Potential Job Roles: Mechanical Fitter; Electrical Fitter; Electronic Fitter; Instrumentation Fitter; Pipe Fitter; Controls and Systems Fitter

Manufacturing Fitter: This occupation is found in manufacturing and process sectors.

The broad purpose of the occupation is to produce complex high value, low volume components or assemblies in full or part, using machines, equipment or systems, to the required specification. Fitters may typically have a mechanical, electrical, electronic, control systems, pipe fitting or instrumentation bias or operate across multiple disciplines depending on the type of assembly. To produce or re-furbish the components fitters will interpret drawings/specifications and plan their work, for example ensuring they have the right tools, equipment and resources to complete the task to the required specification. Fitters are required to check their work against quality standards and make adjustments as required based on their knowledge. On completion of the task a fitter will hand over the product and prepare the work area for the next task by checking equipment meets the standards required to operate.

In their daily work, an employee in this occupation typically interacts with line managers/supervisors; depending on the size of the employer and nature of the work they may work as part of a team of fitters or independently. They may interact with personnel in other functions for example installation and maintenance engineers, health & safety and quality assurance personnel, as well as internal or external customers.

An employee in this occupation will be responsible for completion of their work to the required specification and deadlines, in line with quality, health & safety and environmental regulations and requirements, with minimum supervision.

Mandatory requirements	Functional Skills	Level
	Math's	2
	English	2
Qualification and Skills	GCSE 4 and above in Math's & English	
Knowledge, Skills and Behavior (KSB)	Level 3 Engineering Fitter Apprenticeship ST0432	
Employer Rights and Responsibilities	Employer Rights and Responsibilities	
Personal Learning and Thinking Skills	Creative thinking Reflective Learning	Independent enquiry Team Working

	Self-management	Effective participation
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Level 3 Development Knowledge – Choose units to fill 555 GLH				Months 1 to 39
3	AMEDK3/004	120	Engineering Project	
3	AMEDK3/007	60	Properties and Applications of Engineering Materials	
3	AMEDK3/010	75	Engineering Organisational Efficiency and Improvement	
3	AMEDK3/012	75	Computer Aided Design (CAD) techniques	
3	AMEDK3/015	75	Engineering Maintenance Procedures and Techniques	
3	AMEDK3/016	75	Maintenance of Mechanical Systems	
3	AMEDK3/050	75	General Engineering Maintenance Techniques	
End Point Assessment				Months 39 to 45

Additional Courses				Months 1 to 39
NVQ 3 Extended / EAL Certification				
Level 2	QPEO2/005	64	Producing components using hand fitting techniques	
Level 2	QPEO2/006	68	Producing mechanical assemblies	
Level 2	QPEO2/019	64	Maintaining mechanical devices and equipment	

All apprentices must meet the Knowledge, Skills and Behavior (KSB's) as set in the apprenticeship Standard

End-point assessment (must be completed within 16-weeks) End-point assessment graded: fail, pass, merit or distinction	
Assessment method 1	Project –report including evidence and questioning
Assessment method 2	Multiple choice test.
Assessment method 3	Professional discussion.
EPAO	As a minimum EPAOs should: <ul style="list-style-type: none"> • agree project activity with employer • appoint administrators/invigilators and markers to administer/invigilate and mark/assess the EPA • provide training and CPD to the independent assessors they employ to undertake the EPA • have no direct connection with the apprentice, their employer or training provider i.e. there must be no conflict of interest • have processes in place to conduct internal quality assurance and do this on a regular basis • organise standardisation events and activities in accordance with this plan's IQA section • organise and conduct moderation of independent assessors' marking in accordance with this plan • conform to the requirements of the EQA provider.
Independent assessor	As a minimum an Independent assessor should: <ul style="list-style-type: none"> • be independent of the apprentice, their employer and training provider(s) i.e. there must be no conflict of interest

Qualification Progression	Advanced level 4 HNC apprenticeship.
Job role progression opportunities:	Apprentices will start off by carrying out semi-skilled job roles within manufacturing and engineering industry. It is likely that a period of consolidation will be required in these roles before progression can take place. Most will aspire to a combination of internal promotion within their companies to team leader or supervisor level, while at the same time this affords the opportunity to undertake Further Education qualifications or an Advanced Apprenticeship to upgrade their competence and knowledge to fully skilled status.

