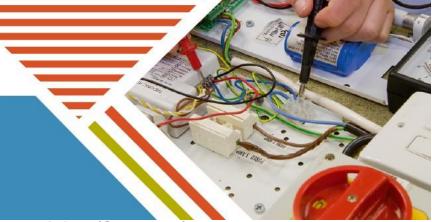


Advanced Electrical Engineering Apprenticeship Standard



Installation Electrician / Maintenance Electrician (Standard)

Sector	Advanced Manufacturing (England) EAL
Level	3
Guided Learning Hours (Off the Job)	763 hours = Development Knowledge
Total Course length	42 Months = Then 6 months for end point assessment
Minimum age of learner	16 years
Cost / Funding	£18000 (£0 age 18 under / 5% £900 age19+)

Occupational profile

Electricians install, maintain and repair electrical systems in industrial, commercial and domestic environments. Electricians might work in both indoor and outdoor settings. Electrical equipment and systems may include switchboards, motors, cables, fuses, thermal relays, fault current protection switches, heating, lighting, air conditioning and metering equipment as well as crime and fire alarm systems and renewable energy technologies. They are able to work on their own proficiently and work without immediate supervision in the most efficient and economical manner.

They may contribute to the design of electrical systems. They are able to set out jobs from drawings and specifications and requisition the necessary installation materials.

Electrical safety is an important area of Electricians' work. On completion of their work the electrical systems must be safe to use. They must adhere to safe working practices without endangering themselves or others.

Installation Electricians work on the installation, testing, commissioning and maintenance of low voltage (less than 1000v) electrical and electronic devices and appliances.

Maintenance Electricians work on the maintenance of electrical and electronic installations including automated production systems. Duties include the supervision of the equipment, its maintenance and necessary repairs.

Mandatory requirements	Functional Skills	Level
	Math	2
	English	2
Qualification and Skills	GCSE 5 and above in Math's, Science & English AM2S	
Knowledge, Skills and Behavior (KSB)	Installation electrician / maintenance electrician (Standard)	
Employer Rights and	EAL level 2 Award in employer rights and responsibilities for new entrant into	
Responsibilities	the science, engineering and manufacturing sector (QCF)	
Personal Learning and	Creative thinking	Independent enquiry
Thinking Skills	Reflective Learning	Team Working
_	Self-management	Effective participation

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Level 3 Performance Units Portfolio Evidence Months 1 to 42		
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Knowledge, Skills and Behavior (KSB)

Qualification Progression	Advanced level 4 HNC apprenticeship.
Job role progression	Apprentices will start off by carrying out semi-skilled job roles within
opportunities:	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.