

PLUMBING & DOMESTIC HEATING TECHNICIAN Apprenticeship

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These apprenticeships provide the skills needed to plan, select, install, service, commission and maintain all aspects of plumbing and domestic heating systems

Key Information

Level	3
Duration	48 months months (this does not include EPA period)
Entry requirements and Mandatory Qualifications:	<ul style="list-style-type: none"> - 16 years or over. - GCSE grade 4 and above in English & maths - Passing an aptitude assessment - Employer completion of a range of work documentation
Delivery	A minimum of 30 hours of on the job training at work place per week including a day/ block release to study theory at the Harrow or Uxbridge Campus
Typical job titles	Plumber, Domestic Heating Engineer, Domestic Heating Installer, Plumbing and Domestic Heating Installer, Plumbing and Domestic Heating Engineer
Link to Professional Registration	<p>By the end of this apprenticeship the candidate will have satisfied the requirements for registration as EngTech by the Engineering Council through The Chartered Institute of Plumbing and Heating Engineering (CIPHE) and or The Chartered Institute of Building Services Engineers (CIBSE).</p> <p>On completion of the health and safety assessment, as determined, by the assessment plan the candidate will have satisfied the requirements to obtain a Construction Skills Certification Scheme (CSCS) Card through the Joint Industry Board for Plumbing and Mechanical Engineering Services (JIB-PMES) at the appropriate grade.</p>

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We are the largest college provider of apprenticeships in west London



We work with major companies including Dyno Plumb, Woodford Heating & Pinewood Studios.



Government funding may be available. Eligibility and criteria apply

Employers involved in creating the standard:

Seddon Construction Ltd, Millside Heating Services Ltd, Parker Bromely Ltd, E C Merrett Ltd, Arthur Padgett Ltd, Coulson Building Group, Gasway, Leaks and Locks, Andrew Crookes Plumbing & Heating, Mitie

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Apprenticeships & Skills

Harrow, Richmond & Uxbridge Colleges

Modules and Content

Knowledge	What is required
Health and safety Core plumbing systems	Understand health and safety legislation, codes of practice and safe working practices Understand selection, planning, installation, testing, commissioning and de-commissioning, service, maintenance, fault diagnosis and repair techniques on cold water, hot water, central heating, above ground drainage and rainwater systems
Electrical components and control systems	Understand installation and testing techniques for electrical components and control systems on plumbing and domestic heating systems
Plumbing science and processes	Understand scientific plumbing, domestic heating and mechanical principles
Principles of environmental technology systems	Understand the principles of domestic mechanical environmental technology systems
Principles of fossil fuels	Understand the principles of fuel combustion, ventilation and fluing arrangements within a domestic environment
Customer service	Understand the principles of high quality customer service and establishing the needs of others (colleagues, customers and other stakeholders). Respect the working environment including customer's properties
Communication	Understand different communication methods, how to communicate in a clear, articulate and appropriate manner and how to adapt communication style to suit different situations

Skills	What is required
Safe working	Operate in a safe working manner by adhering to health and safety legislation, codes of practice and applying safe working practices
Core plumbing system techniques	Apply selection, planning, installation, testing, commissioning and de-commissioning, service, maintenance, fault diagnosis and repair techniques on cold water, hot water, central heating, above ground drainage and rainwater systems
Electrical components and control systems techniques	Apply installation and testing techniques for electrical components and control systems on plumbing and domestic heating systems
Supervisory skills	Take responsibility for own work and safety and welfare of others Oversee and organise the programme of work and work environment Carry out work and manage resources in an environmentally friendly manner
Options	
In addition to the core skills and knowledge requirements, Plumbing and Domestic Heating Technicians must choose to undertake one of the following specialisms:	
Option	Knowledge
Option 1	(Fossil Fuel – Natural Gas)
Option 2	(Fossil Fuel - Oil)
Option 3	(Fossil Fuel – Solid Fuel)
Option 4	(Environmental Technologies)
Skills	
Option 1	Understand the principles of selection, installation, testing, commissioning and service and maintenance techniques on domestic downstream natural gas pipework systems and appliances Select, install, test, commission, service and maintain domestic downstream natural gas pipework and appliances
Option 2	Understand the principles of selection, installation, testing, commissioning and service and maintenance techniques on domestic oil storage, pipework and appliances Select, install, test, commission, service and maintain domestic oil storage, pipework and appliances
Option 3	Understand the principles of selection, installation, testing, commissioning and service and maintenance techniques on domestic solid mineral fuel, wood burning and biomass appliances Select, install, test, commission, service and maintain domestic solid mineral fuel, wood burning and biomass appliances
Option 4	Understand the principles of selection, installation, testing, commissioning and service and maintenance techniques on solar thermal, heat pumps and water recycling systems Select, install, test, commission, service and maintain solar thermal, heat pumps and water recycling systems

Behaviours	What is required
Honesty and Integrity Dependable and responsible	Develop trust with customers and colleagues by undertaking responsibilities in an ethical and empathetic manner Show conscientiousness through being punctual, reliable and professional. Take responsibility for own judgements and actions. Aware of the limits of their own competence
Enthusiasm and positive attitude Quality focus Willingness to learn	Demonstrate drive and energy in fulfilling requirements of role Be quality focussed in work and in personal standards Identify own development needs and take action to meet those needs. Keep up-to-date with best practice. Maintain and enhance competence
Work with others Sustainable working	Work effectively and collaborate with colleagues, other trades, clients, suppliers and the public Give consideration to appropriate use of resources and own actions taking into account the impact on environmental, social and economic factors