



# MAKING THINGS HAPPEN.



[Skilled worker careers information – Wales](#)

So, when was the last time you had a really Good Day? This week? Last week? Last month? Can't remember? You can find your ideal job within building services engineering, one that you actually enjoy... Imagine that!

From installing a light display for 40,000 people at a music festival, creating unique environmental systems or bringing buildings and homes to life, the opportunities are endless.

In this booklet you'll find out about the wide range of options available to you and how you can have a Good Day, every day, in your new career.

Also see our separate technician and graduate booklet which includes information on careers such as design engineer, estimator, contract or project manager and much more...

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## 01 What is building services engineering?

Building services engineering is hugely important. It has a direct impact on everything we do.

Without it, buildings would be too cold in winter and too hot in summer. There'd be no electricity to power our lights and computers; running water would be unheard of; and nipping down to the local shop to grab something for dinner would be impossible as there would be no fridges or freezers – we'd have to buy fresh food every day and eat it in our cold, dark, toilet-less homes.

### Sounds bleak without it, doesn't it?

Not only is building services engineering vital to the way we live, as a career path it offers hundreds of exciting and challenging opportunities in these industries:

- air conditioning and refrigeration
- electrotechnical
- heating and ventilating
- plumbing

It is the job of people working in building services engineering to design, install and maintain the facilities that allow all of us to live and work in comfort and safety.

The sector needs a constant supply of highly skilled and professional people with an environmental conscience, willing to undertake the world-class training and qualifications that are on offer.

But it doesn't stop there: employers make a real commitment to their workforces and spend a lot of time and money on professional development and short courses to teach the skills needed to meet fresh challenges.

There are over 60,000 building services engineering businesses. Between them they employ over half a million people and have an annual turnover of £19.3 billion. They range from multi-million pound companies to small organisations and sole proprietors.

### The sector of the future

Building services engineering never stands still and right now it's taking the lead in environmentally-friendly technology. Climate change is affecting our everyday lives now and it's the people working in building services engineering that are tackling these challenges head-on. As well as designing and installing energy-efficient systems, the sector is at the forefront of developing environmental technology such as solar water heating, photovoltaics or micro-wind turbines to name just a few.



“Building services engineering caught my imagination because there's huge scope to work in all sorts of different areas – even abroad.”

Christopher Jenkins  
Electrical Apprentice, RDM Electrical Services

## 02 Apprenticeships, training, and how to get into building services engineering

As building services engineering has some of the most comprehensive apprenticeships available, you'll be well prepared for your future career within the sector. They are:

- Foundation Modern Apprenticeship leading to a National Vocational Qualification (NVQ) Level 2, and
- Modern Apprenticeship leading to an NVQ Level 3

Highly respected by employers, both apprenticeship programmes are designed to give you the underpinning knowledge and skills you need to work effectively and professionally when on site.

To be employed through an apprenticeship you'll need at least three GCSEs (grade C or above) in maths, English and a science or technology subject.

### Training

There's a lot to learn. And it takes years to become fully trained. Training includes:

- off-the-job training – such as college or training centre learning, and
- on-the-job training – this is where you apply the skills and knowledge gained at college or a training centre while working for your employer

Generally training will take between 2 and 4 years to complete, depending upon the apprenticeship scheme you decide to take.

If you are unable to do an apprenticeship, you are still expected to work towards an NVQ Level 2 or 3, depending on your occupation and job role. To gain an NVQ you must be in employment or have the ability to be assessed on site, carrying out work on real installations. You should be prepared to gain your qualification over a number of years – there's no quick fix to gaining the required qualifications in this highly technical sector.





## 03 What is Air Conditioning and Refrigeration?

From maintaining a comfortable air temperature and humidity in a multi-screen cinema, to keeping blood at the right temperature for lifesaving operations, the air conditioning and refrigeration industry has become a fundamental part of our lives.

Highly skilled and very technical, the industry requires committed and enthusiastic people to install, service and maintain the systems we take for granted.

It's also an industry that takes its responsibilities to the environment very seriously. As an air conditioning or refrigeration engineer, your technical knowledge and practical skills will ensure that products such as heat pumps and refrigerant gasses are handled in a safe and eco-friendly way, and will reduce the impact on the environment as much as possible.

## Air Conditioning and Refrigeration occupations

Occupation	Key Specialist Activities. You will:	Key Common Activities
Refrigeration Engineer	Install, service and maintain refrigeration systems throughout the UK in places such as supermarkets, hospitals, food processing and research establishments	Across both occupations, you will be: <ul style="list-style-type: none"> <li>Working safely</li> <li>Working in an environmentally friendly manner</li> <li>Undertaking preparatory work</li> </ul>
Air Conditioning Engineer	Install, service and maintain systems and equipment safely which control, and maintain the quality, temperature and humidity of air within modern buildings	<ul style="list-style-type: none"> <li>Inspecting, testing, certifying and commissioning</li> <li>Identifying and rectifying faults</li> <li>Providing functional and technical information</li> <li>Maintaining working relationships</li> <li>Overseeing work activities</li> </ul>



“This is one of the things I love about the job – the variety and the fact that no two days are the same. And when I’m out on-site I feel as if I’m learning all the time.”

Martin Davey  
Refrigeration and Air Conditioning Apprentice, Chilltec Refrigeration

## What qualities and skills do you need?

The air conditioning and refrigeration industry is keen to attract male and female new entrants from a diverse range of backgrounds. The typical qualities and skills required are:

- good practical skills and good hand skills
- ability to follow technical drawings, building plans, and other instructions
- ability to work carefully, methodically and safely
- ability to measure accurately
- a head for heights and be prepared to work in all sorts of weather
- willing to work in confined spaces
- presentable with a pleasant manner
- good written and verbal communication skills
- a good team player but also able to work on own initiative
- ability to adapt to change
- good problem-solving skills
- normal colour vision (for some work) and a reasonable level of general fitness

At NVQ Level 3 the additional skills and qualities are:

- ability to plan and organise the work of others
- ability to motivate others
- good analytical skills
- good evaluation skills

## Qualifications

The table below shows the recognised qualifications for air conditioning and refrigeration occupations and the requirements of the apprenticeship frameworks. The air conditioning and refrigeration industry requires you to have an NVQ Level 2 and 3 to achieve qualified operative status, depending on the level of responsibility and the complexity of systems being worked on. New entrants need to complete both the technical certificate and the NVQ in order to be classed as a qualified operative.

## Foundation Modern Apprenticeship requirements

Competence Qualification:	NVQ Level 2 MES Small Commercial Refrigeration and Air Conditioning Systems, in either: <ul style="list-style-type: none"> <li>• Installation, or</li> <li>• Service and Maintenance</li> </ul>
Technical Certificate:	Level 2 Certificate in Small Commercial and Air Conditioning Systems
Key Skills:	Application of Number Level 2 Communication Level 2 Information Technology Level 1
Other Learning:	Employment Rights and Responsibilities Safe Handling of Refrigerants

## Modern Apprenticeship requirements

Competence Qualification:	NVQ Level 3 MES Refrigeration and Air Conditioning Systems in either: <ul style="list-style-type: none"> <li>• Commercial and Industrial Air Conditioning, or</li> <li>• Commercial and Industrial Refrigeration (non-ammonia), or</li> <li>• Commercial and Industrial Refrigeration (Ammonia Refrigeration Systems)</li> </ul>
Technical Certificate:	Level 3 Certificate in Complex Commercial Refrigeration and Air Conditioning Systems in either: <ul style="list-style-type: none"> <li>• Commercial and Industrial Air Conditioning, or</li> <li>• Commercial and Industrial Refrigeration (non-ammonia), or</li> <li>• Commercial and Industrial Refrigeration (Ammonia Refrigeration Systems)</li> </ul>
Key Skills:	Application of Number Level 2 Communication Level 2 Information Technology Level 1
Other Learning:	Employment Rights and Responsibilities Safe Handling of Refrigerants

### Further Information

#### Industry Organisations:

Air Conditioning and Refrigeration Industry Board:  
[www.acrib.org.uk](http://www.acrib.org.uk)  
Heating and Ventilating Contractors' Association:  
[www.hvca.org.uk](http://www.hvca.org.uk)

#### For information on apprenticeships in air conditioning and refrigeration contact:

BEST:  
[www.best-ltd.co.uk](http://www.best-ltd.co.uk) or  
telephone 0800 917 8419

Your local college – many colleges have apprenticeship management departments

Careers Wales:  
[www.careerswales.com](http://www.careerswales.com)



## 04 What is Electrotechnical?

This is a diverse and exciting industry at the cutting-edge of installing, commissioning and maintaining technology in all types of building, including:

- complex projects such as shopping, sports stadiums, hospitals and new housing projects
- advanced data-cabling, data-handling systems and fibre-optic systems
- computer controlled building management systems
- renewable energy systems, like wind turbines or photovoltaics
- control equipment for complex industrial manufacturing and processing.

The electrotechnical industry is professional, responsible and future proof. It offers a guaranteed future, a full career path from school-leaver to professional qualifications, and good pay.

From domestic work to major engineering projects – the electrotechnical world provides a variety of jobs that few others can match. As an electrotechnical worker you will have numerous choices about the type of work you do and the career progression route you take.

### Electrotechnical occupations

Occupation	Key Specialist Activities. You will:	Key Common Activities
Installation Electrician	Install power, lighting, fire protection, security and structured cabling	Across all occupations, you will be:
Electrotechnical Panel Builder	Build the control panels that control building management systems and industrial processes	<ul style="list-style-type: none"> <li>• Working safely</li> <li>• Working in an environmentally friendly manner</li> <li>• Undertaking preparatory work</li> <li>• Inspecting, testing, certifying and commissioning</li> <li>• Identifying and rectifying faults</li> <li>• Providing functional and technical information</li> </ul>
Machine Repair and Rewind Electrician	Repair and maintain electrical motors, which drive equipment and machinery such as, compressors, pumps and fans within buildings	<ul style="list-style-type: none"> <li>• Maintaining working relationships</li> <li>• Overseeing work activities</li> </ul>
Instrumentation Electrician	Commission, test, fault find and repair building management and industrial processing systems	
Maintenance Electrician	Maintain modern electrical systems and the equipment they serve to ensure effective and efficient operation	
Highway Systems Electrician	Install and maintain street lighting and traffic management systems	

## What qualities and skills do you need?

The electrotechnical industry is keen to attract male and female new entrants from a diverse range of backgrounds. The typical qualities and skills required are:

- good practical skills and good hand skills
- good mathematical skills
- ability to follow technical drawings, building plans, wiring diagrams and other instructions
- ability to work carefully, methodically and safely
- ability to measure accurately
- a head for heights and be prepared to work in all sorts of weather
- willing to work in confined spaces
- presentable with a pleasant manner
- good written and verbal communication skills
- a good team player but also able to work on own initiative
- ability to adapt to change
- good problem-solving skills
- normal colour vision and a reasonable level of general fitness
- good analytical skills
- good evaluation skills
- ability to plan and organise the work of others
- ability to motivate others

## Qualifications

The table below shows the recognised qualifications for electrotechnical occupations and the requirements of the apprenticeship frameworks. The electrotechnical industry requires you to have an NVQ Level 3 to achieve qualified operative status. New entrants need to complete both the technical certificate and the NVQ in order to be classed as a qualified operative.

### Foundation Modern Apprenticeship requirements

Competence Qualifications:	NVQ Level 2 Installing Electrotechnical Systems, or NVQ Level 2 Installing Highway Electrical Systems
Technical Certificate:	Level 2 Certificate in Electrotechnical Technology
Key Skills:	Application of Number Level 2 Communication Level 2 Information Technology Level 1
Other Learning:	Employment Rights and Responsibilities

#### Further information

#### Industry Organisations:

The Electrical Contractors' Association:  
[www.eca.co.uk](http://www.eca.co.uk)

The Joint Industry Board for the Electrical Contracting Industry:  
[www.jib.org.uk](http://www.jib.org.uk)

#### For information on electrotechnical apprenticeships contact:

BEST:  
[www.best-ltd.co.uk](http://www.best-ltd.co.uk) or telephone 0800 917 8419

JTL:  
[www.jtltraining.com](http://www.jtltraining.com) or telephone 0800 0852308

Your local college – many colleges have apprenticeship management departments

Careers Wales:  
[www.careerswales.com](http://www.careerswales.com)

### Modern Apprenticeship requirements

Competence Qualifications:	NVQ Level 3 Electrotechnical Services in either: <ul style="list-style-type: none"> <li>• Electrical Installation – Building and Structures, or</li> <li>• Electrical Maintenance, or</li> <li>• Installing Instrumentation, or</li> <li>• Highway Electrical Systems, or</li> </ul> NVQ Level 3 Electrotechnical Panel Building, or NVQ Level 3 Electrical Machine Rewind and Repair
Technical Certificate:	Level 3 Certificate in Electrotechnical Technology
Key Skills:	Application of Number Level 2 Communication Level 2 Information Technology Level 1
Other Learning:	Practical Performance Assessment Level 3 Employment Rights and Responsibilities



## 05 What is Heating and Ventilating?

From the grilles you can see on a classroom wall, to the large networks of pipes that criss-cross factory ceilings, clues to how buildings work are all around us. Every where we go, whether it's a shop, an office, even a laboratory, we see the precise and complicated systems that make those buildings work.

The heating and ventilating industry installs innovative systems and new technologies such as air and ground source heat pumps to make a building as energy efficient as possible. But this is no easy task: it requires highly trained people who have the ability to adapt and apply their skills to install these complex systems:

- Pipework and ductwork installers use their skills to cut, form, weld, and join a wide range of materials used within a system
- Control and commissioning engineers use their knowledge to ensure systems meet the design requirements for the building
- Maintenance engineers identify faults, fix them and, more importantly, plan and carry out service and maintenance activities on systems, to make sure they work efficiently and effectively.

### Heating & Ventilating occupations

Occupation	Key Specialist Activities. You will:	Key Common Activities
Heating Installer	Install complex heating equipment and pipework systems to exact design specifications within large buildings such as office blocks, hospitals, schools etc.	Across all occupations, you will be: <ul style="list-style-type: none"> <li>• Working safely</li> <li>• Working in an environmentally friendly manner</li> <li>• Undertaking preparatory work</li> </ul>
Ductwork Installer	Install complex ductwork and ventilation systems to exact design specifications within large buildings	<ul style="list-style-type: none"> <li>• Inspecting, testing and commissioning</li> <li>• Identifying and rectifying faults</li> </ul>
Domestic Heating Installer	Install and commission domestic central heating systems and ensure they function correctly and efficiently	<ul style="list-style-type: none"> <li>• Providing functional and technical information</li> <li>• Maintaining working relationships</li> <li>• Overseeing work activities</li> </ul>
Service and Maintenance Engineer	Develop service and maintenance programs and carry out regular maintenance and repairs on all heating and ventilating systems and equipment	
Commissioning Engineer	Ensure the systems meet their original design specification	
Controls Engineer	Develop and install controls systems within buildings to ensure the systems work to meet the needs of the user	

## What qualities and skills do you need?

The heating and ventilating industry is keen to attract male and female new entrants from a diverse range of backgrounds. The typical qualities and skills required are:

- good practical skills and good hand skills
- ability to follow technical drawings, building plans, and other instructions
- ability to work carefully, methodically and safely
- ability to measure accurately
- a head for heights and be prepared to work in all sorts of weather
- willing to work in confined spaces
- presentable with a pleasant manner
- good written and verbal communication skills
- a good team player but also able to work on own initiative
- ability to adapt to change
- good problem-solving skills
- normal colour vision (for some work) and a reasonable level of general fitness

At NVQ Level 3 the additional skills and qualities are:

- the ability to plan and organise the work of others
- the ability to motivate others
- good analytical skills
- good evaluation skills

## Qualifications

The table below shows the recognised qualifications for heating and ventilating occupations and the requirements of the apprenticeship frameworks. The heating & ventilating industry requires you to have an NVQ Level 2 and 3 to achieve qualified operative status, depending on the level of responsibility and the complexity of systems being worked on. New entrants need to complete both the technical certificate and the NVQ in order to be classed as a qualified operative.

### Foundation Modern Apprenticeship requirements

<b>Competence Qualifications:</b>	NVQ Level 2 MES Heating and Ventilating Installation, either: <ul style="list-style-type: none"> <li>• Industrial and Commercial, or</li> <li>• Domestic, or</li> <li>• Ductwork, or</li> </ul> NVQ Level 2 MES Heating and Ventilating Maintenance of Systems Components
<b>Technical Certificates:</b>	Level 2 Certificate in Heating and Ventilating Installation, either <ul style="list-style-type: none"> <li>• Industrial and Commercial, or</li> <li>• Domestic, or</li> <li>• Ductwork, or</li> </ul> Level 2 Certificate in Heating and Ventilating Maintenance of Systems Components
<b>Key Skills:</b>	Application of Number Level 2 Communication Level 2 Information Technology Level 1
<b>Other Learning:</b>	Employment Rights and Responsibilities

### Modern Apprenticeship requirements

<b>Competence Qualifications:</b>	NVQ Level 3 MES Heating and Ventilating Installation, either <ul style="list-style-type: none"> <li>• Industrial and Commercial, or</li> <li>• Domestic, or</li> <li>• Ductwork, or</li> </ul> NVQ Level 3 MES Heating and Ventilating Rectification of Systems
<b>Technical Certificates:</b>	Level 3 Certificate in Heating and Ventilating Installation, either <ul style="list-style-type: none"> <li>• Industrial and Commercial, or</li> <li>• Domestic, or</li> <li>• Ductwork, or</li> </ul> Level 3 Certificate in Heating and Ventilating Rectification of Systems
<b>Key Skills:</b>	Application of Number Level 2 Communication Level 2 Information Technology Level 1
<b>Other Learning:</b>	Employment Rights and Responsibilities

Further information

**Industry Organisations:**  
Heating and Ventilating Contractors' Association:  
[www.hvca.org.uk](http://www.hvca.org.uk)

**For information on apprenticeships in heating and ventilating contact:**

**BEST:**  
[www.best-ltd.co.uk](http://www.best-ltd.co.uk) or telephone 0800 917 8419

**JTL:**  
[www.jtltraining.com](http://www.jtltraining.com) or telephone 0800 0852308

Your local college – many colleges have apprenticeship management departments

Careers Wales:  
[www.careerswales.com](http://www.careerswales.com)





## 06 What is Plumbing?

Imagine you had to light a fire in your home to keep warm. Or washing your hands meant collecting cold water from a well at the end of the street. Sounds silly to us now, but plumbers are responsible for the comfortable, hygienic and safe environments in which we live, work and relax.

Plumbing is a responsive and continually developing industry. In recent years environmental technologies have been integrated within the industry and the modern plumber now undertakes a huge variety of jobs, including:

- installing and maintaining central heating systems, hot and cold water systems and drainage systems
- installing, commissioning and maintaining solar water heating, rainwater harvesting or grey water recycling systems
- installing and maintaining gas, oil and solid fuel appliances.

Plumbing offers you a rewarding future, a full career path leading to professional qualifications, and good pay. No two days are the same – from changing a tap washer to installing a solar powered hot water system, plumbers work on domestic, commercial and industrial projects that offer variety and challenge.

### Plumbing occupations

Occupation	Key Specialist Activities You will:	Key Common Activities
<b>Domestic Plumber NVQ Level 2</b>	Install non-complex cold water, hot water, sanitation, rainwater, wet central heating systems and sheet lead weathering systems	Across all occupations, you will be: <ul style="list-style-type: none"> <li>• Working safely</li> <li>• Working in an environmentally friendly manner</li> </ul>
<b>Domestic Plumber NVQ Level 3</b>	Install complex cold water, hot water, sanitation, heating systems and domestic fuel burning appliances such as gas, oil or solid fuel boilers Design systems Plan work activities Improve business products	<ul style="list-style-type: none"> <li>• Undertaking preparatory work</li> <li>• Commissioning and decommissioning systems</li> <li>• Identifying and rectifying faults</li> <li>• Maintaining working relationships</li> </ul>
<b>Industrial and Commercial Plumber NVQ Level 3</b>	Install industrial and commercial heating, fuel supply, specialist appliances and fire protection systems	

## What qualities and skills do you need?

The plumbing industry is keen to attract male and female new entrants from a diverse range of backgrounds. At NVQ 2 the typical qualities and skills required are:

- good practical skills and good hand skills
- ability to follow technical drawings, building plans, and other instructions
- ability to work carefully, methodically and safely
- ability to measure accurately
- a head for heights and be prepared to work in all sorts of weather
- willing to work in confined spaces
- presentable with a pleasant manner
- good written and verbal communication skills
- a good team player but also able to work on own initiative
- ability to adapt to change
- good problem-solving skills
- normal colour vision (for some work) and a reasonable level of general fitness

At NVQ Level 3 the additional skills and qualities are:

- the ability to plan and organise the work of others
- the ability to motivate others
- good analytical skills
- good evaluation skills

## Qualifications

The table below shows the recognised qualifications for plumbing occupations and the requirements of the apprenticeship frameworks. The plumbing industry requires you to have an NVQ Level 2 and 3 to achieve qualified operative status, depending on the level of responsibility and the complexity of systems being worked on. New entrants need to complete both the technical certificate and the NVQ in order to be classed as a qualified operative.

### Foundation Modern Apprenticeship requirements

<b>Competence Qualification:</b>	NVQ Level 2 MES Plumbing
<b>Technical Certificate:</b>	Level 2 Certificate in Basic Plumbing Studies
<b>Key Skills:</b>	Application of Number Level 2 Communication Level 2
<b>Other Learning:</b>	Employment Rights and Responsibilities

### Modern Apprenticeship requirements

<b>Competence Qualifications:</b>	NVQ Level 3 MES Domestic Plumbing, or NVQ Level 3 MES Industrial Commercial Plumbing
<b>Technical Certificates:</b>	Level 3 Certificate in Domestic Plumbing Studies, or Level 3 Certificate in Industrial and Commercial Plumbing Studies
<b>Key Skills:</b>	Application of Number Level 2 Communication Level 2
<b>Other Learning:</b>	Employment Rights and Responsibilities

#### Further information

#### Industry organisations:

The Association of Plumbing and Heating Contractors:  
[www.aphc.co.uk](http://www.aphc.co.uk)

The Chartered Institute of Plumbing & Heating Engineering:  
[www.ciphe.org.uk](http://www.ciphe.org.uk)

The Joint Industry Board for Plumbing Mechanical Engineering Services in England and Wales:  
[www.jib-pmes.org.uk](http://www.jib-pmes.org.uk)

#### For information on apprenticeships in plumbing contact:

BEST:  
[www.best-ltd.co.uk](http://www.best-ltd.co.uk) or  
telephone 0800 917 8419

JTL:  
[www.jtltraining.com](http://www.jtltraining.com) or  
telephone 0800 0852308

Your local college – many colleges have apprenticeship management departments

Careers Wales:  
[www.careerswales.com](http://www.careerswales.com)



“I pride myself on the fact that I’ve never had a complaint about my work and seeing a happy customer gives me a real buzz.”

Alf Ramsay  
Owner, Ramsay Plumbing & Heating

Once you've completed your NVQ you'll be having a Good Day, every day, with industry recognition and the respect of your peers for your skills and ability. But more than that, you have also got a solid foundation to take your career wherever you want it to go.

You might decide to continue in your new role and take on more supervisory tasks as you gain experience. Or you might want to pass on your skills to people who join the sector. You could even move into a more technical role, such as design or project management.

You can do all of this by developing skills further – continually developing yourself through training courses, Higher National Certificates and Higher National Diplomas, or different types of degrees including foundation degrees, means that the sky is the limit for your career.

Take a look at our technician and graduate booklet for more career options, or check out the interactive careers map on our website, or the careers map poster, to see where your Good Day can take you.



To find out more about how you can have a Good Day, every day, in your new career, visit our website at [www.goodday.org.uk](http://www.goodday.org.uk) or telephone the careers helpline on 08000 688 336.

SummitSkills  
Vega House, Opal Drive  
Fox Milne, Milton Keynes  
MK15 0DF  
08000 688 336  
www.goodday.org.uk

\*Deur à Good Day i chi gan SummitSkills, y  
Cyngor Sgiliau Sector ar gyfer gwasanaethau  
peiranneg adeiladau, yn eich helpu i wneud  
penderfyniad gwybodus am eich swydd  
ddeffrydol a'r sgiliau sydd eu hangen arnoch  
er mwyn ei hennill.



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the Sector Skills Council for building services  
engineering, helping you to make an informed  
decision about your ideal job and the skills  
you need to achieve it.

Ar ôl i chi gwblhau eich NVQ byddwch yn cael Diwrnod Da, hynny, mae gennych syftaen gref hefyd i fynd â'ch gyrrfa i ble bynnag yr hoffech fynd.

Efallai y byddwch yn penderfynu parhau yn eich rôl newydd a chymryd mwy o dasgau gornuchwyllo wrth i chi ennill profiad. Neu efallai yr hoffech drosglwyddo eich sgiliau i bobl sy'n ymuno â'r sector. Gallwch hyd yn oed symud i mewn i rôl fwy technegol, fel dylunio neu reoli prosiect.

Gallwch wneud hyn i gyd drwy ddatblygu sgiliau ymhellach - mae datblygu'ch hun yn barhaus drwy gyrsiau hyfforddiant, Tystysgrifau Cenedlaethol Uwch a Diplomâu, neu wahanol raddau yn golygu bod dim pen draw i'ch gyrrfa.

Edrychwch ar ein llyfryn technegwyr a graddedigion am fwy o ddeuwisiadau gyrrfa a galwedigaethau, neu edrychwch ar y map gyrraedd rhyngweithiol ar ein gwefan, neu'r poster map gyrraedd, i weld i ble y gall eich Diwrnod Da fynd â chi.



I gael gwybod mwy am sut y gallwch gael Diwrnod Da, bob diwrnod, yn eich gyrrfa newydd, ewch i'n gwefan yn [www.goodday.org.uk](http://www.goodday.org.uk) neu ffoniwch y llinell gyfwrth gyrraedd ar 0800 688 336.

## 06 Beth yw Plymo?



Dychmygwch fod rhaid i chi gynnu tan yn eich cartref i gadw'n gymnes. Neu fod golchi eich dwlio yn golygu casglu dwr oer o ffynnon ar ddiwedd y stryd. Mae'n swiio'n rhyfedd i ni nawr, ond plymwr sy'n gyffrol am yr amgylcheddau cyfforddus, glan a diogel yr ydym yn byw, gweithio ac ymliacio ynddnt.

Mae plymo yn ddiwydiant ymatebodol sy'n datblygu'n barhaus. Yn ystod y blynyddoedd diwethaf mae technolegau amgylcheddol wedi'u hintegreiddio o fewn y diwydiant ac mae'r plymwr modern bellach yn ymgymryd ag amrywiol fawr o swyddi, yn cynnwys:

- gosod a chynnal offer rwy, olew a thanwydd solet.
- gosod, comisiynu a chynnal systemau gwresogol dwr solar, casglu dwr glaw neu ailgylchu dwr llwyd
- gosod a chynnal systemau gwres canolog, systemau dwr poeth ac oer a systemau draenio

Mae plymo yn cynnig dyfodol da i chi, llwybr gyftra llawn yn arwain at gymwysterau profesiynol, a thal da. Nid oes byth dau ddiwmod yr un peth – o newid wasler mewn tap i osod system dwr peth solar, mae plymwr yn gweithio ar brosiectau domestig, masnachol a diwydianol sy'n cynnig amrywiol a her.

## Galwedigaethau plymo

Galwedigaeth	Alweddol. Byddwch yn:	Alweddol: Gweithgareddau Arbennigol
Plymwr Domestig NVQ Lefel 2	Gosod systemau gwres canolog dwr oer, dwr poeth, glanweithdra, dwr glaw, gwlyb nad ydynt yn gymhleth	Ar draws pob galwedigaeth, byddwch yn:
Plymwr Domestig NVQ Lefel 3	Gosod systemau gwresogi dwr oer, dwr poeth, glanweithdra a systemau tywydd llenblwm	• Gweithio'n ddiogel • Gweithio mewn ffordd amgylcheddol gyfeillgar • Ymgymryd â gwaith paratoadol • Comisiynu a dadgomiisynu systemau • Nodi a chywiro namau Dylunio systemau rwy, olew neu danwydd solet sy'n llosgi tanwydd fel boeleri cymhleth, ac offer domestig oer, dwr poeth, glanweithdra
Plymwr Diwydianol a Masnachol NVQ Lefel 3	Gosod gwres diwydianol a masnachol, cyflenwad tanwydd, offer arbenigol a systemau diogel tan	• Cynnal perthnasodd gwaith

## Pa nodweddion a sgiliau sydd eu hangen amoch?

Mae'r diwydiant plymo yn awyddus i ddenu newydd ddyfodolaid gwrywaidd a benywaidd o ystod amrywiol o gefndiroedd. Ar lefel NVQ 2 y nodweddion a'r sgiliau arferol sydd eu hangen yw:

- sgiliau ymarferol da a sgiliau trin â llaw da
- gallu i ddiylun llunfardau technegol, cynlluniau adeiladau, a chyfarwyddiadau eraill
- gallu i weithio'n ofalus yn drefnus ac yn ddioegel
- gallu i fesur yn gywir
- gweithio ar uchder yn gyfforddus a bod yn barod i weithio ym mhob tywydd
- yn barod i weithio mewn lleoedd cyfyng
- yn ddaclus gyda ffordd gyfeillgar
- sgiliau cyfathrebu ysgrifenedig a llafar da
- aelod da o dîm yn hefyd yn gallu gweithio o'ch pen at'ch pastwn eich hun
- y gallu i addasu i newid
- sgiliau datrys problemau da
- golwg lliw arferol (ar gyfer peth gwaith) a lefel resymol o ffitrwydd cyffredinol

Ar NVQ Lefel 3 y sgiliau a'r nodweddion ychwanegol yw:

- y gallu i gynllunio a threfnu gwaith eraill
- y gallu i gymhell eraill
- sgiliau dadansodol da
- sgiliau gwerthuso da

## Cymwysterau

Mae'r tabl isod yn dangos y cymwysterau cydnabyddedig ar gyfer galwedigaethau plymo a gofynion fframweithiau prentisiaeth. Mae'r diwydiant plymo yn mynnu bod genych NVQ Lefel 2 a 3 er mwyn cyflawni statws gweithredydd cymwys, yn dilynau ar y lefel o gyfrifoldeb a chymhlethdod y systemau y gweithir arnynt. Mae'n rhaid i newydd ddyfodolaid gwblhau'r dystysgrif dechnegol a'r NVQ er mwyn cael eu nodi'n weithredydd cymwys.

## Gofynion Prentisiaeth Fodern Sylfaen

<b>Cymhwyster Cymhwysedd:</b> NVQ Lefel 2 MES Plymo	<b>Tystysgrif Dechnegol:</b> Tystysgrif Lefel 2 mewn Astudiaethau Plymo Syffaeol	<b>Dysgu Arall:</b> Hawliau a Chyfrifoldebau Cyflogaeth
<b>Sgiliau Allweddol:</b> Cymhwyso Rhif Lefel 2	Cyfathrebu Lefel 2	Hawliau a Chyfrifoldebau Cyflogaeth
<b>Tystysgrif Dechnegol:</b> Tystysgrif Lefel 2 mewn Astudiaethau Plymo Syffaeol	<b>Sgiliau Allweddol:</b> Cymhwyso Rhif Lefel 2	Cyfathrebu Lefel 2
<b>Dysgu Arall:</b> Hawliau a Chyfrifoldebau Cyflogaeth	<b>Cymhwyster Cymhwysedd:</b> NVQ Lefel 3 MES Plymo Domestig, neu NVQ Lefel 3 MES Plymo Diwydianol Masnachol	<b>Tystysgrif Dechnegol:</b> Tystysgrif Lefel 3 mewn Astudiaethau Plymo Domestig, neu Tystysgrif Lefel 3 mewn Astudiaethau Plymo Diwydianol a Masnachol
<b>Sgiliau Allweddol:</b> Cymhwyso Rhif Lefel 2	<b>Tystysgrif Dechnegol:</b> Tystysgrif Lefel 3 mewn Astudiaethau Plymo Domestig, neu Tystysgrif Lefel 3 mewn Astudiaethau Plymo Diwydianol a Masnachol	<b>Dysgu Arall:</b> Hawliau a Chyfrifoldebau Cyflogaeth

## Gofynion Prentisiaeth Fodern

<b>Cymhwyster Cymhwysedd:</b> NVQ Lefel 3 MES Plymo Domestig, neu NVQ Lefel 3 MES Plymo Diwydianol Masnachol	<b>Tystysgrif Dechnegol:</b> Tystysgrif Lefel 3 mewn Astudiaethau Plymo Domestig, neu Tystysgrif Lefel 3 mewn Astudiaethau Plymo Diwydianol a Masnachol	<b>Sgiliau Allweddol:</b> Cymhwyso Rhif Lefel 2
<b>Dysgu Arall:</b> Hawliau a Chyfrifoldebau Cyflogaeth	<b>Tystysgrif Dechnegol:</b> Tystysgrif Lefel 3 mewn Astudiaethau Plymo Domestig, neu Tystysgrif Lefel 3 mewn Astudiaethau Plymo Diwydianol a Masnachol	<b>Dysgu Arall:</b> Hawliau a Chyfrifoldebau Cyflogaeth
<b>Sgiliau Allweddol:</b> Cymhwyso Rhif Lefel 2	<b>Tystysgrif Dechnegol:</b> Tystysgrif Lefel 3 mewn Astudiaethau Plymo Domestig, neu Tystysgrif Lefel 3 mewn Astudiaethau Plymo Diwydianol a Masnachol	<b>Dysgu Arall:</b> Hawliau a Chyfrifoldebau Cyflogaeth
<b>Dysgu Arall:</b> Hawliau a Chyfrifoldebau Cyflogaeth	<b>Cymhwyster Cymhwysedd:</b> NVQ Lefel 3 MES Plymo Domestig, neu NVQ Lefel 3 MES Plymo Diwydianol Masnachol	<b>Tystysgrif Dechnegol:</b> Tystysgrif Lefel 3 mewn Astudiaethau Plymo Domestig, neu Tystysgrif Lefel 3 mewn Astudiaethau Plymo Diwydianol a Masnachol

**Am wybodaeth ar prentisiaethau mewn plymo cysylltwch â:**  
BEST: [www.best-uk.co.uk](http://www.best-uk.co.uk) neu [www.best-ltd.co.uk](http://www.best-ltd.co.uk) 0800 917 8419  
JTL: [www.jtltraining.com](http://www.jtltraining.com) neu [www.jtltraining.com](http://www.jtltraining.com) 0800 0852308  
Eich coleg lleol – Mae gan lawer o golegau adrannau rheoli prentisiaethau Gyfa Cymru: [www.gyfa.gov.uk](http://www.gyfa.gov.uk)

**Am wybodaeth ar prentisiaethau mewn plymo cysylltwch â:**  
BEST: [www.best-uk.co.uk](http://www.best-uk.co.uk) neu [www.best-ltd.co.uk](http://www.best-ltd.co.uk) 0800 917 8419  
JTL: [www.jtltraining.com](http://www.jtltraining.com) neu [www.jtltraining.com](http://www.jtltraining.com) 0800 0852308  
Eich coleg lleol – Mae gan lawer o golegau adrannau rheoli prentisiaethau Gyfa Cymru: [www.gyfa.gov.uk](http://www.gyfa.gov.uk)

“Rwy'n falch iawn o'r ffaith nad wyf erioed wedi derbyn cwyn am fy ngwaith ac mae gweld cwsmer hapus yn rhoi boddhad mawr i mi!”

Aif Ramsey  
Perchenog, Ramsay Plumbing & Heating





## Beth yw Electrodechnegol?

Mae hwn yn ddiwydiant amrywiol a chyffrous sydd ar flaen y gad o ran gosod, comisiynu a chynnal technoleg ym mhob math o adeilad, yn cynnwys:

- prosiectau cymhleth fel siopa, stadia chwaraeon, ysbysai a phrosiectau tai newydd
- systemau ceblau data, trn data ac opteg ffibr uwch
- systemau rheoli adeiladau a reolir gan gyfrifiadur
- systemau ynni adnewyddadwy, fel tyrbinau gwynnt neu ffotofeddau
- offer rheoli ar gyfer gweithgynhyrchu a phrosesu diwydianol cymhleth.

Mae'r diwydiant electrodechnegol yn broffesiynol, yn gyfrifol ac wedi'i ddiogelu o safbwynt y dyfodol. Mae'n cynnig dyfodol wedi'i warantu, llwybr gyfrif llawn o adael yr ysgol i gymwysterau proffesiynol, a thal da.

O waith domestig i brosiectau peiranneg mawr – mae'r byd electrodechnegol yn cynnig amrywiaeth o swyddi na cheir eu tebyg mewn meysydd eraill. Fel gweithiwr electrodechnegol bydd gennych ddeustadau niferus am y math o waith yr ydych yn ei wneud a'r llwybr cynnydd gyfra yr ydych yn ei ddilyn.

## Galwedigaethau Electrodechnegol

Galwedigaeth	Gweithgareddau Arbenigol Allweddol. Byddwch yn:	Gweithgareddau Cyffredin Allweddol:
Trydanwr Gosod	Gosod pŵer, goleuo, diogelwch tan, diogled a cheblau strwythurol dig	Ar draws pob galwedigaeth, byddwch yn:
Adeladwr Paneli Electrodechnegol	Adeladu'r paneli rheoli sy'n rheoli systemau rheoli adeiladu a phrosesu diwydianol	• Gweithio'n ddiogel • Gweithio mewn ffordd amgylcheddol gyfeillgar • Ymgymryd â gwaith paratoadol
Ailweindio Peirannau	Atgyweirio a chynnal moduron trydanol, sy'n gymru offer a pheirannau fel cywasgwyf, pymplau a gwynyllau o fewn adeiladau	• Arolygu, profi, tystysgrifto a chomisiynu • Nodi a chywiro namau • Darparu gwybodaeth ymarferol a thechnegol • Cynnal perthnasoedd gwaith • Gornchwyllo • namau ac atgyweirio systemau rheoli adeiladau a phrosesu diwydianol
Trydanwr Offeryniacth	Comisiynu, profi, canfod namau ac atgyweirio systemau rheoli adeiladau a phrosesu	• Comisiynu, profi, canfod namau ac atgyweirio systemau rheoli adeiladau a phrosesu diwydianol
Trydanwr Cynnal	Cynnal systemau trydanol modern a'r offer y maent yn eu gwasanaethu i sicrhau gweithrededd effeithiol ac effeithlon	• Cynnal systemau trydanol modern a'r offer y maent yn eu gwasanaethu i sicrhau gweithrededd effeithiol ac effeithlon
Trydanwr Systemau Prifffyrdd	Gosod a chynnal goleuadau	• Gosod a chynnal goleuadau

## Pa nodweddion a sgiliau sydd eu hangen amoch?

Mae'r diwydiant electrodechnegol yn awyddus i ddenu newydd ddyfodolaid grynwaidd a benywaidd o ystod amrywiol o gefndiroedd. Y nodweddion a'r sgiliau arferol sydd eu hangen yw:

- sgiliau ymarferol da a sgiliau trn â llaw da
- sgiliau mathemategol da
- y gallu i ddiilyn llunladau technegol, cynlluniau adeiladau, diagraramau
- weithio a chyfarwyddiadau eraill
- y gallu i weithio'n ofalus yn drefnus ac yn ddioget
- y gallu i fesur yn gywir
- gweithio ar uchder yn gyfforddus a bod yn barod i weithio ym mhob tywydd
- yn barod i weithio mewn lleoedd cyfng
- yn ddaclus gyda ffordd gyfeillgar
- sgiliau mathemategol da
- y gallu i ddiilyn llunladau technegol, cynlluniau adeiladau, diagraramau
- weithio a chyfarwyddiadau eraill
- y gallu i weithio'n ofalus yn drefnus ac yn ddioget
- y gallu i fesur yn gywir
- sgiliau dadansodol da
- sgiliau gwerthuso da
- y gallu i gynllunio a threfnu gwaith eraill
- y gallu i gymell eraill

## Gofynion Prentisiaeth Fodern

Dysgu Arall:	Hawliau a Chyfrifoleddau Cyflogaeth
Sgiliau Allweddol:	Cymhwyso Rhif Lefel 2 Cyfathrebu Lefel 2 Technoleg Gwybodaeth Lefel 1
Tystysgrif Dechnegol:	Tystysgrif Lefel 2 mewn Technoleg Electrodechnegol
Cymhwyster Cymhwysedd:	NVQ Lefel 2 Gosod Systemau Electrodechnegol, neu NVQ Lefel 2 Gosod Systemau Prifffyrdd

## Gofynion Prentisiaeth Fodern Sylfaen

Mae'r tabl isod yn dangos y cymwysterau cydnabyddedig ar gyfer galwedigaethau electrodechnegol a gofynion y fframweithiau prentisiaeth. Mae'r diwydiant electrodechnegol yn mynnu bod gennych NVQ Lefel 3 er mwyn cyflawni statws gweithredydd cymwys. Mae'n rhaid i newydd ddyfodolaid gwblhau'r dystysgrif dechnegol a'r NVQ er mwyn cael eu nodi'n weithredydd cymwys.

Dysgu Arall:	Asesiad Perfformiad Ymarferol Lefel 3 Hawliau a Chyfrifoleddau Cyflogaeth
Sgiliau Allweddol:	Cymhwyso Rhif Lefel 2 Cyfathrebu Lefel 2 Technoleg Gwybodaeth Lefel 1
Tystysgrif Dechnegol:	Tystysgrif Lefel 3 mewn Technoleg Electrodechnegol
Cymhwyster Cymhwysedd:	NVQ Lefel 3 Gwasanaethau Electrodechnegol mewn naill ai: • Gosod Trydanol – Adeiladau a Strwythurau, neu • Cynnal Trydanol, neu • Gosod Offeryniacth, neu • Systemau Trydanol Prifffyrdd, neu • NVQ Lefel 3 Adeiladu Paneli Electrodechnegol, neu • NVQ Lefel 3 Ailweindio ac Atgyweirio Peirannau Trydanol

**Gwybodaeth bellach**  
Sefydliaidau'r diwydiant  
Cymdeithas Contractwyr Trydanol:  
[www.eca.co.uk](http://www.eca.co.uk)  
Y Bwrdd Diwydiantol ar Contractio Trydanol:  
[www.jib.org.uk](http://www.jib.org.uk)  
**Am wybodaeth ar prentisiaethau electrodechnegol cysylltwch â:**  
BEST:  
[www.best-ltd.co.uk](http://www.best-ltd.co.uk) neu ffonwch 0800 917 8419  
JTL:  
[www.jltraining.com](http://www.jltraining.com) neu ffonwch 0800 0852308  
Mae gan lawer o prentisiaethau gyfra Cymru:  
[www.gyfracyrnu.com](http://www.gyfracyrnu.com)

## Beth yw Tymheru a Rheweiddiad?

O gynnal tymheredd aer cyffordus a lleithder mewn sinema amsglŷn, i gadw gwaeed ar y tymheredd cywir ar gyfer llawdriniaeth sy'n achub bywydau, mae'r diwydiant tymheru a rheweiddiad wedi dod yn rhan hanfodol o'n bywydau.

Mae angen ar y diwydiant hwn, sy'n fedrus ac yn dechnegol iawn, bodl ymrwymedig a brwdfrydig i osod, gwasanaethu a chynnal y systemau yr ydym yn eu cynryd yn ganataol.

Mae hefyd yn ddiwydiant sy'n cynryd ei gyfrifoldebau i'r amgylchedd o ddifrif. Fel peirannydd tymheru neu reweiddiad, bydd eich gwybodaeth dechnegol a'ch sgiliau ymarferol yn sicrhau bod cynnyrch fel pympiau gwres a nyron rheweiddiad yn cael eu trin mewn modd diogel ac ecogyfeillgar, ac yn lleihau'r effaith ar yr amgylchedd i'r graddau mwyaf posib.

## Galwedigaethau Tymheru a Rheweiddiad

Galwedigaeth	Gweithgareddau Arbenigol Allweddol. Byddwch yn:	Gweithgareddau Cyffredin Allweddol
Peirannydd Rheweiddiad	Gosod, gwasanaethu a chynnal systemau rheweiddiad ar draws y DU mewn lleoedd fel archfarcnadedd, ysbŷtai, sefydliadau prosesu bwyd ac ymchwil.	• Gweithio'n ddiogel • Gweithio mewn ffordd amgylcheddol gyfeillgar • Ymgymryd â gwaith paratoadol • Arolygu, profi, tystysgrifio a chomisiynu • Nodi a chywiro namau Darparu gwybodaeth ymarferol a thechnegol • Cynnal perthnasoedd gwaith Goruchwylio • gweithgareddau gwaith
Peirannydd Tymheru	Gosod, gwasanaethu a chynnal systemau ac offer yn ddiogel sy'n rheoli a chynnal ansawdd, tymheredd a lleithder aer o fewn adeiladau modern.	• Gwarchrchnadedd, ysbŷtai, draws y DU mewn lleoedd fel archfarcnadedd, ysbŷtai, sefydliadau prosesu bwyd ac ymchwil.



GOOD DAY

“Dyma un o'r pethau rwy'n ei hoffi am y swydd - yr amrywiaeth a'r ffraith nad yw dau ddiwrnod yr un peth. A phan rwy'n allan ar y safle rwy'n teimlo fy mod yn dysgu drwy'r amser.”

Martin Davey  
Prentis Rheweiddiad a Tymheru, Chillieo Refrigeration

## Pa nodweddion a sgiliau sydd eu hangen amoch?

Mae'r diwydiant tymheru a rheweiddiad yn awyddus i ddenu newydd ddyfodolaid gwrwydaidd a benywaidd o ystod amrywiol o gefndiroedd. Y nodweddion a'r sgiliau arferol sydd eu hangen yw:

- Sgiliau ymarferol da a sgiliau trin â llaw da
- Gallu i ddilyn lluniadau technegol, cynlluniau a chlyfarwyddiadau eraill
- Gallu i wellio'n oralus yn drefnus ac yn ddioegel
- Y gallu i weithio'n ofalus yn drefnus ac yn gweithio ar uchder yn gyffordus a bod yn barod i weithio ym mhob tywydd
- Sgiliau datrys problemau da
- Y gallu i addasu i newid
- Y gallu i fesur yn gywir
- Sgiliau datrys problemau da
- Y gallu i wellio'n oralus yn drefnus ac yn ddioegel
- Y gallu i weithio'n ofalus yn drefnus ac yn gweithio ar uchder yn gyffordus a bod yn barod i weithio ym mhob tywydd
- Sgiliau datrys problemau da
- Y gallu i addasu i newid
- Y gallu i fesur yn gywir
- Sgiliau datrys problemau da
- Y gallu i wellio'n oralus yn drefnus ac yn ddioegel
- Y gallu i weithio'n ofalus yn drefnus ac yn gweithio ar uchder yn gyffordus a bod yn barod i weithio ym mhob tywydd

Ar NVQ Lefel 3 y sgiliau a'r nodweddion ychwanegol yw:

- Y gallu i gynllunio a threfnu gwaith eraill
- Y gallu i gymhell eraill
- Sgiliau dadansodol da
- Sgiliau gwerthuso da

## Cymwysterau

Mae'r tabl isod yn dangos y cymwysterau cydnabyddedig ar gyfer galwedigaethau tymheru a rheweiddiad a gofynion y ffarmweithiau prentisiaeth. Mae'r diwydiant tymheru a rheweiddiad yn mynnw bod genrch NVQ Lefel 2 a 3 er mwyn cyflawni statws gweithredydd cymwys, yn dilynny ar y lefel o gyfrifoldeb a chymhlethdod y systemau y gweithir amynt. Mae'n rhaid i newydd ddyfodolaid y gwbhau'r dystysgrif dechnegol a'r NVQ er mwyn cael eu nodi'n weithredydd cymwys.

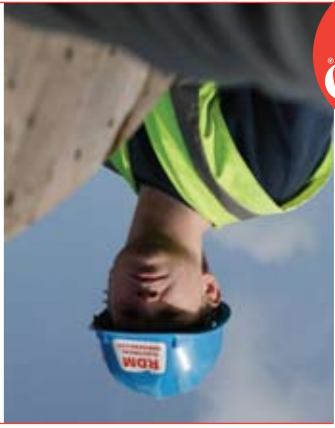
## Gofynion Prentisiaeth Fodern Sylfaen

Cymhwyster Cymhwysedd:	Tystysgrif Dechnegol:	Sgiliau Allweddol:	Dysgu Arall:
NVQ Lefel 2 MES Systemau Rheweiddiad a Tymheru Masnachol	• Gosod, neu • Gosod, neu • Gwasanaethu a Chynnal Bach, mewn naill ai:	Tystysgrif Lefel 2 mewn Systemau Masnachol Bach a Tymheru	Hawliau a Chyfrifoldebau Cyflogaeth Trin Rhewyddion yn Ddiogel
NVQ Lefel 2 MES Systemau Rheweiddiad a Tymheru Masnachol	• Gosod, neu • Gosod, neu • Gwasanaethu a Chynnal Bach, mewn naill ai:	Tystysgrif Lefel 2 mewn Systemau Masnachol Bach a Tymheru	Hawliau a Chyfrifoldebau Cyflogaeth Trin Rhewyddion yn Ddiogel
NVQ Lefel 2 MES Systemau Rheweiddiad a Tymheru Masnachol	• Gosod, neu • Gosod, neu • Gwasanaethu a Chynnal Bach, mewn naill ai:	Tystysgrif Lefel 2 mewn Systemau Rheweiddiad a Tymheru Masnachol	Hawliau a Chyfrifoldebau Cyflogaeth Trin Rhewyddion yn Ddiogel

## Gofynion Prentisiaeth Fodern

Cymhwyster Cymhwysedd:	Tystysgrif Dechnegol:	Sgiliau Allweddol:	Dysgu Arall:
NVQ Lefel 3 MES Systemau Rheweiddiad a Tymheru mewn naill ai:	• Tymheru Masnachol a Diwydiannol, neu • Rheweiddiad Masnachol (di-amonïa), neu • Rheweiddiad Masnachol a Diwydiannol (Systemau Rheweiddiad Amonïa)	Tystysgrif Lefel 3 mewn Systemau Rheweiddiad a Tymheru Masnachol Cymhleth mewn naill ai:	Hawliau a Chyfrifoldebau Cyflogaeth Trin Rhewyddion yn Ddiogel
NVQ Lefel 3 MES Systemau Rheweiddiad a Tymheru mewn naill ai:	• Tymheru Masnachol a Diwydiannol, neu • Rheweiddiad Masnachol (di-amonïa), neu • Rheweiddiad Masnachol a Diwydiannol (Systemau Rheweiddiad Amonïa)	Tystysgrif Lefel 3 mewn Systemau Rheweiddiad a Tymheru Masnachol Cymhleth mewn naill ai:	Hawliau a Chyfrifoldebau Cyflogaeth Trin Rhewyddion yn Ddiogel
NVQ Lefel 3 MES Systemau Rheweiddiad a Tymheru mewn naill ai:	• Tymheru Masnachol a Diwydiannol, neu • Rheweiddiad Masnachol (di-amonïa), neu • Rheweiddiad Masnachol a Diwydiannol (Systemau Rheweiddiad Amonïa)	Tystysgrif Lefel 3 mewn Systemau Rheweiddiad a Tymheru Masnachol Cymhleth mewn naill ai:	Hawliau a Chyfrifoldebau Cyflogaeth Trin Rhewyddion yn Ddiogel

Gwybodaeth bellach  
Sefylliadau'r diwydiant:  
Bwrdd y Diwydiant  
Tymheru a Rheweiddiad:  
[www.acrb.org.uk](http://www.acrb.org.uk)  
Cymdeithas Contractwr  
Gwresogil ac Awyru:  
[www.hvca.org.uk](http://www.hvca.org.uk)  
Am wybodaeth ar  
prentisiaethau mewn  
tymheru a rheweiddiad  
cysylltwch â:  
[www.best-td.co.uk](http://www.best-td.co.uk) neu  
ffonwch 0800 917 8419  
Eich coleg lleol  
Mae gan lawer o  
golegau adranau theoli  
prentisiaethau  
Cyfra Cymru:  
[www.gyrfacymru.com](http://www.gyrfacymru.com)



“Taniodd peirianeg gwasanaethau adeiladau fy nychymyg oherwydd bod sgôp anferth i weithio ym mhob math o faes – hyd yn oed dramor.”

Christopher Jenkins  
Prentis Trydanol, RDM Electrical Services

Nid yw peirianeg gwasanaethau adeiladau byth yn aros yn yr unfan ac mae hyn o bryd mae'n geffyl blaen o safbwynt technoleg sy'n amgylcheddol gyfeillgar. Mae newid yn yr hinsawdd yn effeithio ar cwrdd â heriau hyn yn ym mhob math o bwrdd a gosod systemau ynni effeithlon, mae'r sector ar y blaen o ran datblygu technoleg amgylcheddol fel gwresogi dŵr solar, ffotofotoddedau neu ddyrbynnau gwyrnt micro i enwi ond ychydig.

## Sector y dyfodol

Mae dros 60,000 o fusnesau peirianeg gwasanaethau adeiladau. Rhwyngddynt maent yn cefnogi dros hanner miliwn o bobl ac mae ganddynt drosant blyneddol o £19.3 biliwn. Maent yn amrywio o ghyrsiau byr i addysgu'r sgiliau sydd eu hangen i gwrdd â heriau newydd. Ond nid yw'n dod i ben gyda hynny: mae cyflogwyr yn gwneud ymrwymiad pendant i'w gweithioedd ac yn treulio llawer o arian ar ddatblygiad profesiynol a sector, sy'n foddol ymgyddiant o'r saton uchaf ar ymgyrterau sydd ar gael. Mae angen cyflwyno cyswrt o bobl fedrus a phroffesiynol iawn i chydwybod amgylcheddol ar y cyfnewtiau sy'n caniatáu i ni fyw yn ddiogel ac mewn cysur.

- tymheru a rhewddiaid
- electrodechnegol
- gwresogi ac awyru
- plymo

Nid yn unig yw gwasanaethau peirianeg adeiladau yn hanfodol i'r ffordd yr ydym yn byw, fel llwybr gyrra mae'n cynnig cannoedd o gyfleoedd cyffrous a heriol:

## Mae'n swnio ddigon diflas hebdo, tydi?!

Hebdo, byddai adeiladau yn rhy oer yn y gaeaf ac yn rhy boeth yn yr haf. Ni fyddai unrhyw drydan i bwerau ein goleuadau a'n cyfrifiaduron; ni fyddai unrhyw sôn am ddrw rhegog; a byddai galw yn y stop i'ol i brynu rhywbeth i ginio yn amhosib gan na fyddai unrhyw oerelloedd na rhewelloedd – byddai'n rhaid i ni brynu bywd ffres bob dydd a'i fwyta yn ein tai oer, tywyll, di-doiied.

Mae peirianeg gwasanaethau adeiladau yn bwysig dros ben. Mae'n effeithio ar bopeth rydym yn ei wneud.

## Beth yw peirianeg gwasanaethau adeiladau?



## 02

## Prentisiaethau, hyfforddiant, a sut i ymuno â'r diwydiant peirianeg gwasanaethau adeiladau

Gan fod gan beirianeg gwasanaethau adeiladau rai o'r prentisiaethau mwyaf cynhwysfwr sydd ar gael, byddwch wedi'ch paratoi'n dda ar gyfer eich gyrra yn y sector yn y dyfodol. Maent fel a ganlyn:

- Prentisiaeth Fodern Syffraen yn arwain at Gymhwyster Galwedigaethol Cenedlaethol (NVQ) Lefel 2, a
- Prentisiaeth Fodern yn arwain at NVQ Lefel 3

Maent yn derbyn parch uchel gan gyflogwyr, ac mae'r ddwy raglen brentisiaeth wedi'u llunio i roi'r wybodaeth a'r sgiliau syffraenol i chi er mwyn gweithio'n effeithiol ac yn broffesiynol ar y safle. I gael eich cyflogi drwy brentisiaeth bydd angen tri TGAL (gradd C neu uwch) amoch o leiaf mewn mathemateg, Saesneg a phwnc gwyddonol neu dechnoleg.

## Hyfforddiant

Mae llawer i'w ddsygu. Ac mae'n cymryd blynyddoedd i gael eich hyfforddi'n llawn. Mae hyfforddiant yn cynnwys:

- hyfforddiant y tu allan i'r swydd – fel dysgu mewn coleg neu ganolfan hyfforddi, a
- hyfforddiant o fewn y swydd – dyma lle y byddwch yn cymhysu'r sgiliau a'r wybodaeth y byddwch yn eu hennill yn y coleg neu ganolfan hyfforddi tra'n gweithio i'ch cyflogwr.

Yn gyffredinol bydd yn cymryd rhwng 2 a 4 blynedd i gwblhau'r hyfforddiant, yn dibynnu ar y cynllun prentisiaeth y byddwch yn penderfynu ei ddilyn.

Os nad ydych yn gallu gwneud prentisiaeth, bydd disgybl o hyd i chi i weithio tuag at NVQ Lefel 2 neu 3, yn dibynnu ar eich galwedigaeth a'ch swydd. I ennill NVQ mae'n rhaid i chi fod mewn cyflogaeth neu fod â'r gallu i gael eich asesu ar safle, yn cyflawni gwaith ar osodiadau go iawn. Dylech fod yn barod i ennill eich cynhwysfwr dros nifer o flynyddoedd - does dim ffordd gyflym i ennill y cymhwysterau gofynnol yn y sector technoleg iawn hwn.



Hefyd gweler ein llyfr yn technegwyr a graddedigion ar wahân sy'n cynnwys gwybodaeth ar yrtaoedd fel peirianydd dylunio, amcangyfrifydd, rheolwr contract neu brosiect a llawer mwy...

Felly, pryd oedd y tro diwetha' y cawsoch chi Ddiwrnod Da go iawn? Yr wythnos hon? Yr wythnos diwetha? Mis diwetha? Methu â chorïo? Gallwch chi ddod o hyd i'ch swydd ddeltrydol o fewn peirianeg gwasanaethau adeiladau, un yr ydych yn ei mwynhau...Dychmygwch hynny!

O osod arddangosfa oieuadau ar gyfer 40,000 o bobl mewn gwyl gerdoraeth, creu systemau amgylcheddol unigryw neu ddod ag adeiladau a chartrefi yn fyw, mae'r cyfleoedd yn ddi-ddiwedd.

Yn y llyfr yn hwn cewch wybod am yr ystod eang o opsiynau sydd ar gael a sut y gallwch chi gael Diwrnod Da, bob diwrnod, yn eich gyrra newydd.

**Cynnwys**

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Gwybodaeth gyfraedd  
gweithiwr medrus – Gyfnu



GWINNED  
I BETHAU  
DDIGWYDD.

