

## Job of The Week

### Heat Pump Engineer

#### Key Skills

- The ability to use, repair and maintain machines and tools
- Knowledge of building and construction
- To be thorough and pay attention to detail
- Design skills and knowledge
- Knowledge of maths
- The ability to work well with others
- The ability to use your initiative
- Customer service skills
- To be able to carry out basic tasks on a computer or hand-held device

#### Salary

£24,000 - £46,000

#### Working hours

35 – 43 per week  
Evenings/weekends  
As customers demand

Aspire | Challenge | Achieve

# Heat Pump Engineer

## College

You could take a college course in a related subject like plumbing and heating, or a T Level in Building Services Engineering for Construction. These courses teach you some of the skills you'll need to apply for a trainee [plumber](#), [heating and ventilation engineer](#), or [gas service technician](#) position with a company.

Once you've built up your experience, you could take extra training, usually lasting between 3 and 5 days.

This would include:

- Heat pump foundation knowledge
- Low temperature heating and hot water systems
- Individual heat pump technology

## Entry requirements

Entry requirements for these courses vary.

- 4 or 5 GCSEs at grades 9 to 4 (A\* to C), or equivalent, including English and maths for a T Level

## Apprenticeship

- Building Services Engineering Level 2 Foundation Apprenticeship
- Low Carbon Heating Technician Level 3 Advanced Apprenticeship
- Heat Network Maintenance Technician Level 3 Advanced Apprenticeship

## Foundation apprenticeship

You can apply for a foundation apprenticeship if you're aged 16 to 21.

- 5 GCSEs at grades 9 to 4 (A\* to C), or equivalent, including English and maths, for an advanced apprenticeship

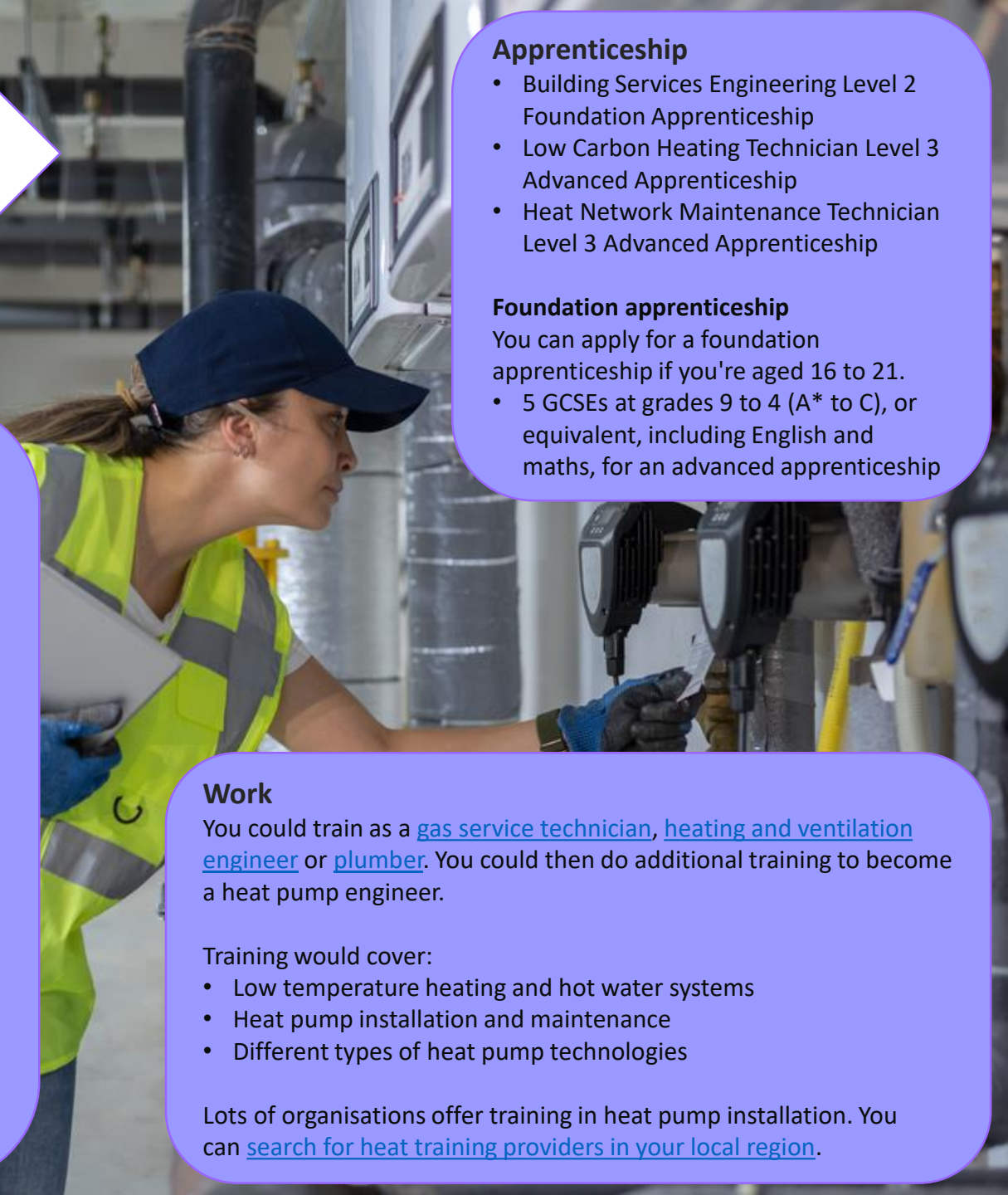
## Work

You could train as a [gas service technician](#), [heating and ventilation engineer](#) or [plumber](#). You could then do additional training to become a heat pump engineer.

Training would cover:

- Low temperature heating and hot water systems
- Heat pump installation and maintenance
- Different types of heat pump technologies

Lots of organisations offer training in heat pump installation. You can [search for heat training providers in your local region](#).





## Career path and progression

With experience, you could move into supervisory and management roles, with responsibility for a team of engineers.

You could also:

- Set up your own business
- Train apprentices
- Teach in a [further education college](#)

## Day to Day tasks

- Install, service and repair low carbon heating and hot water systems
- Find and fix faults
- Follow health and safety requirements
- Decommission heating and hot water systems
- Show customers how to use their new system

## Working conditions

You could work at a client's business or at a client's home. Your working environment may be cramped, at height and you'll travel often. You may need to wear a uniform.



# Labour Market Information

In the Careers section of the school website you can find the useful comparison tool the 'Labour Market Information widget'.

Use the widget to compare different job roles in any employment sector or relating specifically to the 'Job of the Week'.

<b>Plumbers and heating and ventilating installers and repairers</b>	<b>Production managers and directors in mining and energy</b>	<b>Environment professionals</b>
Weekly Pay <b>£670</b> Annual Pay <b>£34,840</b> Hours/Week <b>51h</b> Hourly Pay <b>£13</b>	Weekly Pay <b>£1,220</b> Annual Pay <b>£63,440</b> Hours/Week <b>42h</b> Hourly Pay <b>£29</b>	Weekly Pay <b>£870</b> Annual Pay <b>£45,240</b> Hours/Week <b>38h</b> Hourly Pay <b>£23</b>
<b>Workforce Change</b> (projected) Contraction <b>-6.1%</b> The workforce is projected to contract by -6.1% over the period to 2035, losing 9,100 jobs.	<b>Workforce Change</b> (projected) Growth <b>9.6%</b> The workforce is projected to grow by 9.6% over the period to 2035, creating 2,800 jobs.	<b>Workforce Change</b> (projected) Growth <b>11.1%</b> The workforce is projected to grow by 11.1% over the period to 2035, creating 6,000 jobs.
You might find this job in Specialised construction Construction Civil engineering Land transport, etc Electricity, gas, etc	You might find this job in Electricity, gas, etc Wholesale trade Coal, oil & gas; Mining & related Land transport, etc Water	You might find this job in Architectural & related Specialised construction Public admin. & defence Electricity, gas, etc Other professional
More info Clear card	More info Clear card	More info Clear card



# Labour Market Information



## Plumbers and heating and ventilating installers and repairers

Weekly Pay  
**£670**  
Hours/Week  
**51h**  
Annual Pay  
**£34,840**  
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### Workforce Change (projected)

Contraction  
**-6.1%**

The workforce is projected to contract by -6.1% over the period to 2035, losing 9,100 jobs.

You might find this job in  
Specialised construction  
Construction  
Civil engineering  
Land transport, etc  
Electricity, gas, etc

[More info](#)

[Clear card](#)

## Production managers and directors in mining and energy

Weekly Pay  
**£1,220**  
Hours/Week  
**42h**  
Annual Pay  
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### Workforce Change (projected)

Growth  
**9.6%**

The workforce is projected to grow by 9.6% over the period to 2035, creating 2,800 jobs.

You might find this job in  
Electricity, gas, etc  
Wholesale trade  
Coal, oil & gas; Mining & related  
Land transport, etc  
Water

[More info](#)

[Clear card](#)

## Environment professionals

Weekly Pay  
**£870**  
Hours/Week  
**38h**  
Annual Pay  
**£45,240**  
Hourly Pay  
**£23**

### Workforce Change (projected)

Growth  
**11.1%**

The workforce is projected to grow by 11.1% over the period to 2035, creating 6,000 jobs.

You might find this job in  
Architectural & related  
Specialised construction  
Public admin. & defence  
Electricity, gas, etc  
Other professional

[More info](#)

[Clear card](#)

# Keep looking...

Use these links to learn more about our Job of The Week, consider the various pathways leading to the career, what you can be doing now to help yourself and other roles in the industry...

## Take a look at these short videos for inspiration...

Heat Pump Engineer NCS



[Heat pump engineer: Oliver's and Ben's stories](#)

Why Become a Heat Pump Installer



[Why become a heat pump installer?](#)

How does a Heat Pump work?



[How Do Heat Pumps Work? | Heat Pumps Explained](#)

Day in the Life



Day in the Life

[A Day In The Life Renewable Installation](#)

## Useful Websites

[Join the Heat Pump Association \(HPA\)](#)

[Chartered Institute of Plumbing and Heating Engineering \(CIPHE\)](#)

[Explore green careers | National Careers Service](#)

[Heat Pump Installer - Green Careers Hub](#)