

What's in a building?

Jobs you didn't know existed

In association with VotesforSchools and The WOW Show

Oxfordshire
CAREERS HUB

THE **CAREERS &
ENTERPRISE**
COMPANY

Learning objectives for today

- Challenge stereotypes and their relationship to life roles, work-life balance and career destinations.
- Listen to speakers talking about the roles that are available in their workplace and sector.
- Prepare pupils for experiences of work by helping them to develop questions to find out about the roles available in the workplaces that they are visiting, what qualifications people need to get those roles and how you progress within the organisation.
- To research your education, training, apprenticeship, employment and volunteering options including information about the best progression pathways through to specific goals.



Discuss (3 mins)

What do you think of when you hear the word construction?
Come up with your 3 main thoughts and share them with the class.

0:00-
8:38

What's in a building?

Jobs you didn't know existed

Activity (10 mins)

Click on the image to watch the film and think about the varied careers available in construction.

1 Careers in Construction

Activity (2 mins)

As a group, discuss what you thought about the roles you saw in the film. Then click on the image below to watch the short film from Go Construct to see the 170 plus roles available.

There are **so many roles available in construction** from Accountant to Wood machinist, and everything in between.

Construction employs around **3.1 million people**, which is around **9% of the UK workforce**. See if there are any that you think would **suit you and your future**.

0:00-
1:46



1 Careers in Construction



As you have heard construction has **so many different opportunities** for lots of different careers.



Activity (2 mins)

A quick show of hands, raise your hand if there are any careers that you have seen that would interest you. Did any of the careers surprise you?

Discuss (2 mins)

Which routes can you think of to enter a career in the construction industry?

Apprenticeships

There are 100s of apprenticeships where you can earn money while you learn.

Work experience

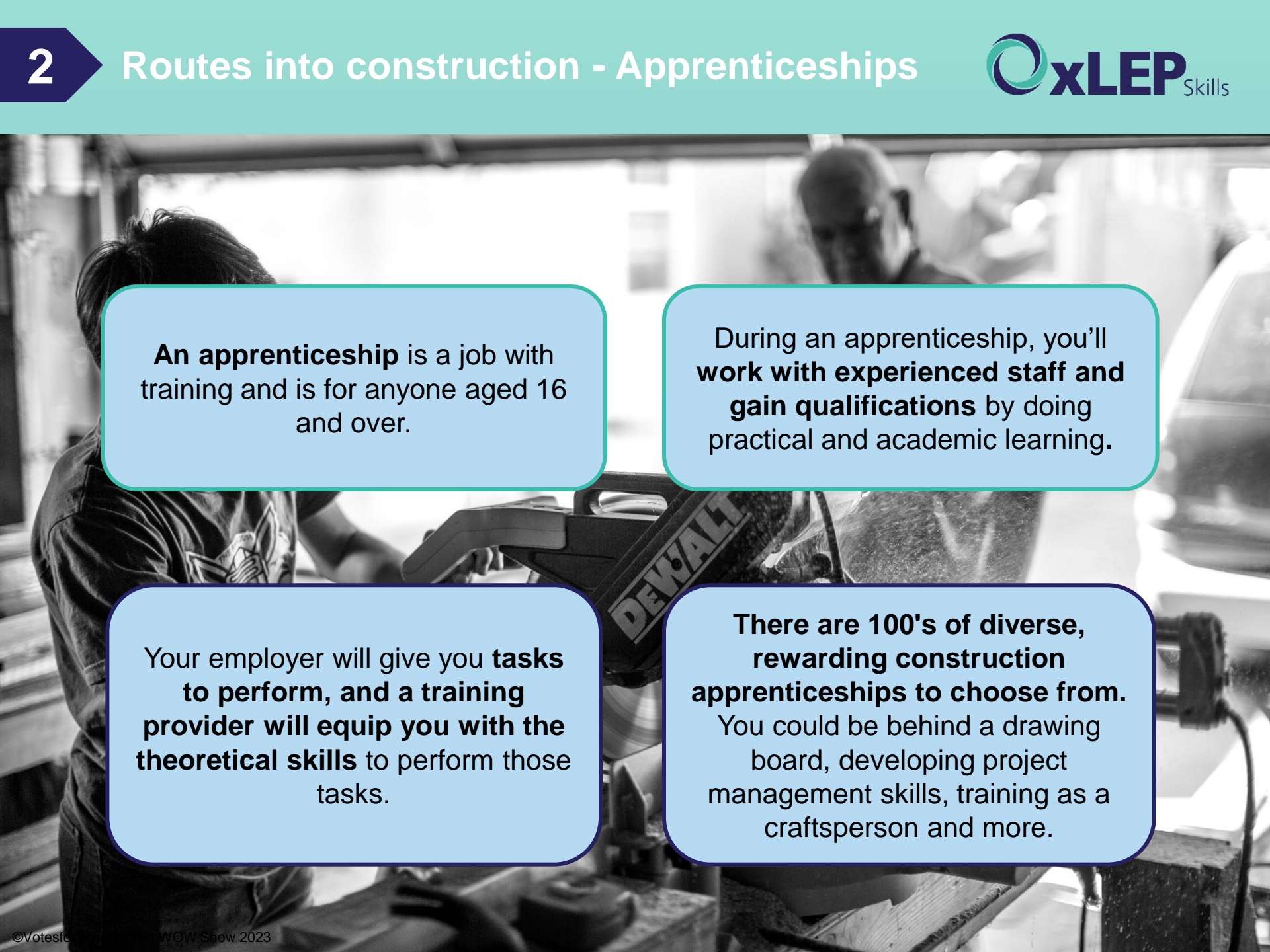
This can help you get a feel for a job you're interested in and will improve your CV, making you more employable.

College courses

Courses are available, such as bricklaying, carpentry and joinery, civil engineering, heritage skills and technician trades.

University degree

At university, you'll have a chance to focus on a specific subject and study with experts in your field.

A black and white photograph of a person in a workshop, viewed from the side, operating a DeWalt miter saw. The person is wearing a dark t-shirt. The background is slightly blurred, showing other people and workshop equipment.

An apprenticeship is a job with training and is for anyone aged 16 and over.

During an apprenticeship, you'll **work with experienced staff and gain qualifications** by doing practical and academic learning.

Your employer will give you **tasks to perform, and a training provider will equip you with the theoretical skills** to perform those tasks.

There are 100's of diverse, rewarding construction apprenticeships to choose from. You could be behind a drawing board, developing project management skills, training as a craftsman and more.



Colleges can prepare you for a **specific career or higher-level qualifications.**

Through further education (FE), you can **build technical, vocational or academic skills in a wide variety of subjects.**

Further education is for anyone who has left school. You can go to college to **continue studying straight after finishing your GCSEs, or at a later stage in life.**

There are several colleges or training providers within your local area, **two are featured at the end of the lesson.**

At university, you can **focus on a specific subject and study with experts**. There are lots of degrees for a career in the construction and built environment sector.

If you have a specific role in mind, you could **look at the universities which offer courses in your chosen field**.

Student loans are available in England, Scotland and Wales to help cover tuition fees and living costs.

[Prospects](#) and [UCAS](#) are good places to start researching degree courses.

Harwell Science and Innovation Campus has a long history as a place for Science and Technology. Achievements here include **the world's first transistorised computer; the development of the lithium-ion battery and vital work to develop the COVID-19 vaccination.**

Currently Harwell Campus, one of the main construction developers, has plans to deliver **over 140,000 sqm of new cutting-edge labs, offices and advanced manufacturing space alongside a hotel and conference centre.**

The word 'HARWELL' in a large, bold, blue, sans-serif font. The letter 'A' is stylized with a small triangle above it. The logo is positioned at the bottom center of the slide, overlaid on a background image of a modern building with a green and blue facade and a large, circular, metallic sculpture in the foreground.

HARWELL

Discuss (2 mins)

Have you heard about Harwell, do you know what else they are known for?

£3bn of national facilities pushing scientific discovery and understanding.

A unique collaboration of **government, academia and industry** working on the critical problems facing our planet.

An important place with a history of **invention and inspiring future generations.**

A community of **6,000 people** within **700 acres** of beautiful countryside.

HARWELL

Activity (2 mins)

Talk to a partner about other construction projects you have seen in your local area. What are your thoughts and opinions on them?

Kingsgrove, Wantage is a project **providing 1500 homes, a neighbourhood centre, a primary school, a care home and open space** in the town of Wantage.

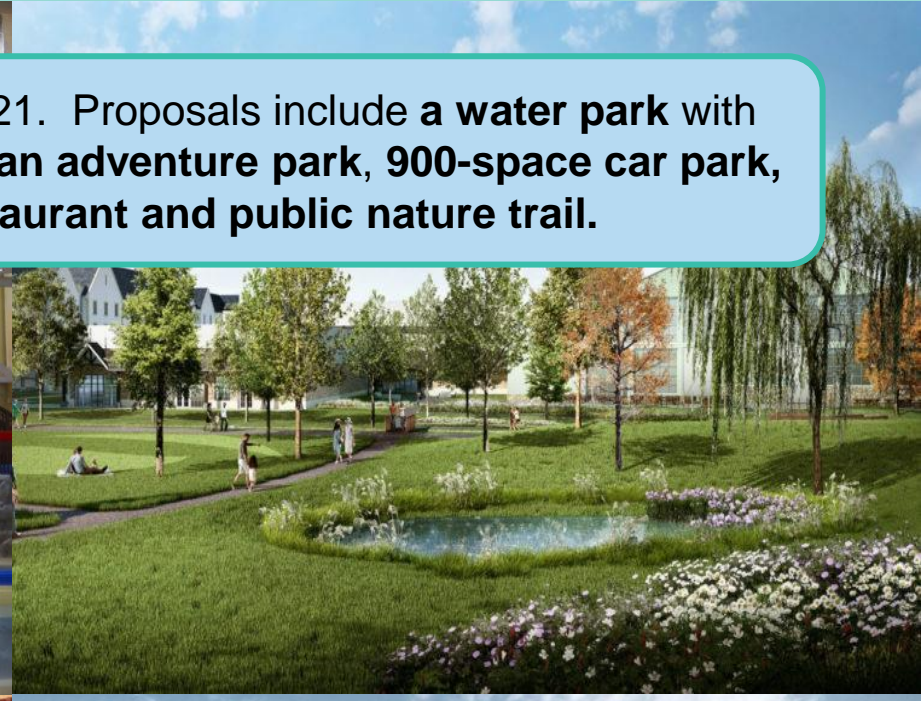
Planning permission was **approved in 2019** and since then the development has begun its build with several contractors and housebuilders on site including **ACS Construction, Bellway, CALA homes, Taylor Wimpey and St Modwen Homes.**

Oxford North, Oxford City is important within the **Oxford Local Plan 2036** and is currently being developed by Thomas White Oxford, on behalf of St John's College, Oxford in a joint venture with Cadillac Fairview and Stanhope.

Proposals include a new sustainable development on 64 acres of land, creating **480 homes for 1,500 people, 1 million sq. ft of labs and offices for 4,500 jobs, three new public parks and shops, bars and restaurants** for Oxford.




Great Wolf, Bicester submitted plans in 2021. Proposals include a **water park** with twisty slides, a **498-room four-storey hotel**, an **adventure park**, **900-space car park**, **559sqm conference centre**, a **restaurant** and **public nature trail**.



SISK Builders are understood to be the main contractor appointed to complete the build of the development which aims to **begin on site late 2022/early 2023**.



A young woman with short brown hair, wearing a striped t-shirt, is leaning over a large architectural model of a city. She is looking down at the model with a focused expression. The model shows various buildings, green spaces, and roads. In the background, there is a blurred interior space with a yellow wall and a sign that says 'HARV'.

Rebecca, the architect studied **Art & Design, Physics and Maths at A level**. She then completed a BSc Hons in Architecture, followed by a MSC in Architecture, Urbanism and Building Sciences. She is a **strategic thinker, a problem solver and a designer**. There are a **few different routes** to this if it is something for you.

Challenge:

Does this role excite you? Can you see yourself doing this as a career?

Activity (2 mins)

How could construction be a driving force in combatting climate change?



Hannah, the ecologist studied **Geography** at college and then went to university to study an MSc in **Biodiversity and Conservation**. She looks at the environment and wildlife and how the project can protect or improve biodiversity.

Challenge:

Does this role excite you? Can you see yourself doing this as a career?

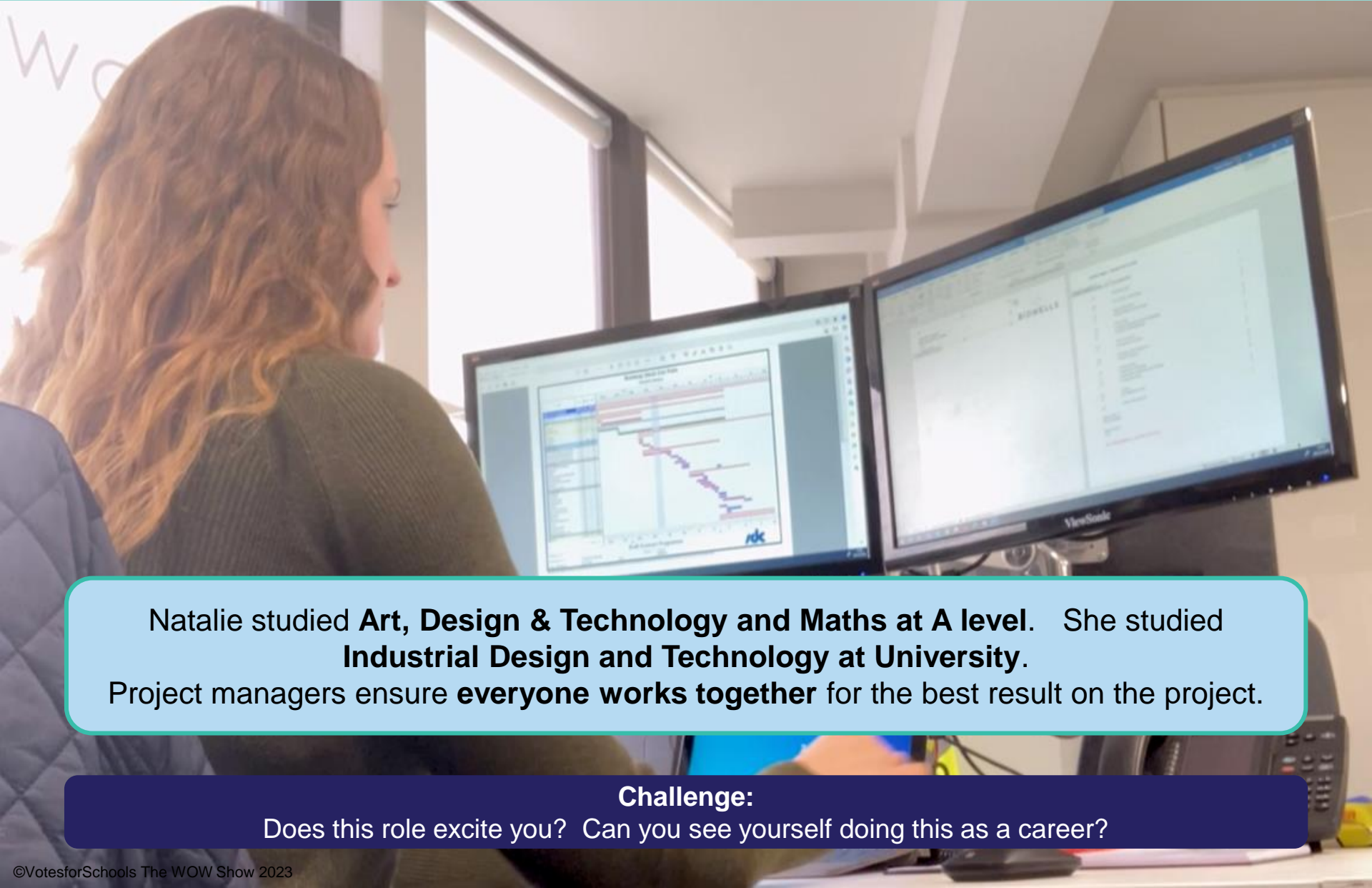
Define: Sustainability Manager

Someone who monitors the environmental impacts of the work being carried out, to ensure that the project adheres to the most environmentally friendly methods possible.

Emmanuel studied the equivalent of **A-Levels with a focus on sciences**, then a **Degree in Environmental Sciences and an Engineering Degree in Biotechnologies**. Finally, he studied for a **Master of Sciences in Environmental Diagnostics**.

Challenge:

Does this role excite you? Can you see yourself doing this as a career?



Natalie studied **Art, Design & Technology** and **Maths** at A level. She studied **Industrial Design and Technology** at University. Project managers ensure **everyone works together** for the best result on the project.

Challenge:

Does this role excite you? Can you see yourself doing this as a career?

A photograph of a man, Gavin, wearing a white hard hat and a bright yellow high-visibility safety jacket. He is looking down at a set of white plans or documents he is holding. The background shows a brick building and some greenery, suggesting an outdoor construction or site environment.

Define: Civil Engineer
Civil engineers plan, design and manage large construction projects.

Gavin, the Civil Engineer studied: **Maths, English, Sciences, IT & Business Studies, French and Art.** He then studied for a **BTEC in Civil / Structural Engineering** and a **HNC in Civil Engineering** and finally, a **Bachelor of Engineering (Hons) Degree.**

This role needs an **inquisitive and problem solving** mind.

Challenge:

Does this role excite you? Can you see yourself doing this as a career?


Define: Aptitude test

A test to see if someone has a natural ability for a particular type of work.

Kelsey is currently working as a **crane operator**. **She** is at the beginning of her crane career and has her sights set on a heavy crane world record one day. She began her apprenticeship, after **applying and completing an interview and aptitude test**.

Challenge:

Does this role excite you? Can you see yourself doing this as a career?

A young man with dark curly hair, wearing a green hard hat with a 'Taylor Wimpey' logo and a high-visibility yellow safety vest, stands on a construction site. The background shows wooden scaffolding and construction equipment.

Remeyo is only one month into his bricklaying **apprenticeship**. **He is learning and earning money at the same time.**

Bricklaying is the **most in demand trade** in the construction industry.

Challenge:

Does this role excite you? Can you see yourself doing this as a career?



Dominic studied **PE, IT and computer science** at school. He chose an apprenticeship as he wanted a **mixture of hands on experience, classroom learning and also wanted to earn some money**. Dominic enjoys the variety of his role as Project Maintenance Operative as every day is different.

Challenge:

Does this role excite you? Can you see yourself doing this as a career?



Keiran studied **Photography and Maths** at school then completed a college course in art and design. He chose the **apprentice route** to earn and learn at the same time. Keiran's next step is Level 2 Site carpentry.

Challenge:

Does this role excite you? Can you see yourself doing this as a career?

Find your perfect route

School Leavers →

Undergraduate & Professional →

Part Time & Evening →

Apprenticeships →

↓ Explore more options below



Abingdon and Whitney college is a great example of a provider of training and courses for careers in construction. On the next page you will see the **construction courses available there.**

Construction

EMPLOYABILITY SKILLS DEVELOPED ON THE COURSE



Accurate
Note taking



Meeting
Deadlines



Numeracy
Skills



Problem
Solving



Professional
Approach



Working
in Teams

DID YOU KNOW?



Our new £1.7m Green Construction Skills Centre in Abingdon opened in September 2022

POTENTIAL JOB ROLES

Construction Worker, Floor Layer, Groundworker, Fencing Installer, Roofer, Plumbing and Domestic Heating Assistant, Scaffolder, Traineeship (may be unpaid).

POTENTIAL JOB ROLES

Construction Worker, Floor Layer, Groundworker, Fencing Installer, Roofer, Plasterer, Plumbing and Domestic Heating Technician, Scaffolder and more...

POTENTIAL JOB ROLES

Bench Joiner, Construction Worker, Electrical Installer, Floor Layer, Groundworker, Fencing Installer, Roofer, Plasterer, Plumbing and Domestic Heating Technician, Site Carpenter, Scaffolder and more...

POTENTIAL JOB ROLES

LEVEL 4: Architectural Assistant, Build Technician, Building Surveyor, Construction Site Manager, Construction Design and Build Technician, Senior Bench Joiner, Site Manager, Structural Steelworker, Quantity Surveyor and more...

LEVEL 1

FULL-TIME PROGRAMMES

Carpentry and Joinery Level 1
Electrical Installation Level 1
Plumbing Level 1

1YR

Entry with:

Evidence of engagement in learning.

LEVEL 2

FULL-TIME PROGRAMMES

Bench Joinery Level 2
Electrical Installation Level 2
Plumbing Level 2
Site Carpentry Level 2

1YR

APPRENTICESHIPS¹

Level 2 Carpentry & Joinery: Architectural Joiner
Level 2 Carpentry & Joinery Site Carpenter
Level 2 Property Maintenance Operative

Entry with:

Four GCSEs at grade 3 or above, including English and maths, or internal progression from a Level 1 programme.

¹These apprenticeships are offered at our Bicester Construction Skills Centre.

ADVANCED LEVEL 3

FULL-TIME PROGRAMMES (Whitney only)

Bench Joinery Level 3
Electrical Installation Level 3
Plumbing Level 3
Site Carpentry Level 3

2YRS

APPRENTICESHIPS¹

Level 3 Carpentry & Joinery; Architectural Joiner
Level 3 Carpentry & Joinery; Site Carpenter
Level 3 Plumbing and Domestic Heating Technician
Level 3 Gas Engineering Operative
Level 3 Installation Electrician and Maintenance Electrician

Entry with:

Five GCSEs grade 9-4 including English and maths or progress on from a Level 2 programme.

Programme locations: Abingdon and Whitney campuses
Apprenticeships: Bicester

HIGHER LEVELS 4-7

Degree programmes for this subject are available at other institutions. Other types of programmes, such as Degree Apprenticeships, Higher National Certificates and Diplomas are also available

Entry with:

Subject to previous programme, qualifications at Level 3, and relevant experience.

^{**}This degree is offered at another institution.

1-4
YRS

Construction

If you love working with your hands you could become a carpenter, plumber, electrician, site foreman or surveyor.



Banbury and Bicester College programmes focus heavily on the practical elements of learning: working in industry placements and practicing in our college's excellent facilities. As well as general construction multi-skills they also run courses specifically for:

- plumbing
- carpentry
- electrical installation



Finding help & information

Oxfordshire's new **careers platform**, [Find Your Future](#), is the **next step** for you to find out more and **plan your future** here in Oxfordshire.



EXPLORE 'FIND YOUR FUTURE' TOGETHER AND GET YOUR CHILD EXCITED ABOUT WHAT'S NEXT



3 ways to get started

- 1 Choose a zone to explore 12 industry sectors to visit
- 2 Learn about different pathways e.g T-Levels, apprenticeships or university
- 3 Search a specific company Find out what they do and connect with them

Navigate your way around the platform by clicking on **Find Your Future**.

There is a guide on [Find Your Future](#) for students and parents to explore **Your Fabulous Future in Oxfordshire**. Take time to **get excited** and **make plans!**



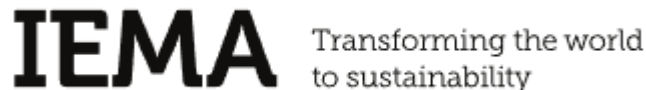
Signposting to your future

There are lots of great websites to look at if this is something you are interested in:



Go Construct provides resources for anyone looking for a career in the construction and built environment sector. They showcase the many rewarding opportunities available and help people from all backgrounds to enter an exciting and growing industry.

Institution of Civil Engineers (ICE) promotes and advances civil engineering around the globe. We lead the infrastructure debate to create a more sustainable future and ensure high standards through awarding professional qualifications.



IEMA is the professional body for everyone working in environment and sustainability.

CIEEM are the leading professional membership body representing and supporting ecologists and environmental managers in the UK, Ireland and abroad. Their vision is of a healthy natural environment for the benefit of current and future generations.





Signposting to your future

There are lots of great websites to look at if this is something you are interested in:



The Royal Institute of Chartered Surveyors (RICS) promotes and enforces the highest professional standards in the development and management of land, real estate, construction and infrastructure.

SISK are leaders in the construction industry completing large, complex, multidisciplinary building programmes. They are committed to sustainability and lasting community legacies.



The Royal Institute of British Architects is a global professional membership body driving excellence in architecture. They work to deliver better buildings and places, stronger communities and a sustainable environment.

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