

Student Name _____

Construction

The construction industry is constantly growing and evolving, which is what makes working in this industry so varied and exciting. Whether it is working on commercial developments, innovative housing or on people's homes, you will feel like you have one of the best careers in the world.

You will study in a purpose-built environment with real, made-to-scale room structures for you to train in.

We are looking forward to welcoming you and have set some tasks for you to complete before you join us. Please complete the task most relevant to the course you are studying.

Please send your completed activities to applicants@knowsleycollege.ac.uk with the subject line, 'Completed Construction Applicant Activities'.

We look forward to meeting you soon.

Kind regards,
Construction Tutors

'Construction Roles' Activity

Below is a link to a short film clip produced by the CITB (Construction Industry Training Board), promoting roles and responsibilities for those wishing to pursue employment within the construction industry and those wishing to train towards becoming a tradesperson.

<https://www.youtube.com/watch?v=xTiqFF9MjLA>

Please watch the film clip and answer the following questions:





What are the following people training to be?	
Matthew	
Carla	
Scott	
Reece	
Colette	

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What is a Technician?	
List 6 types of trade professionals who work on construction sites and briefly outline their roles.	
1.	2.
3.	4.
5.	6.
What trade within construction would you like to train for? Please explain why.	

'Health and Safety' Activity

When you enter a construction site, you will see many warning signs and symbols. Can you explain what each of the symbols below mean?

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Watch the below health and safety video and answer the following questions.

<https://www.youtube.com/watch?v= Z5vRD0qR5M>

<p>What happens if people do not comply with the Health & Safety at Work regulations?</p>
<p>Who is responsibility for Health & Safety on site?</p>
<p>What does PPE Stand for?</p>
<p>What PPE is required for the line of work you have chosen?</p>
<p>What is the overall aim of the Health & Safety at Work Act?</p>

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'Who is Who' Activity

For this activity you need to use the key words to identify which construction team member belongs to the description in the boxes below.

There are 12 parts of the team that need to be identified.
You may use Google to assist you if you are unsure.

Your Key Words
Plasterer, Joiner, Estimator, Health and Safety Officer, Electrician, Architect, Client, Site agent, Painter and Decorator, Bricklayer, Supervisor, Clerk of Works

It is this person's responsibility to interpret the client's requirements and translate them into a detailed plan or contract for the building contractor, together with the overall supervision of the work being carried out
Answer:

This person plays a major part for all parties directly or indirectly involved with the work being carried out. They make regular inspections of the site and investigate any incidents accruing offering advice on actions to prevent reoccurrences.
Answer:

This person is the most important member of the team. Without them the work would simply not exist. They finance the work being carried out and directly or indirectly employ the entire team.
Answer:

This person constructs all types of walling in is involved with the maintenance and adaptation of existing works
Answer:

This person usually the last to arrive on site and has the responsibility applying a finish to the plaster, bare wood and any render. This can be applied in many colours
Answer:

This person is appointed by the architect to ensure contractors carry out in accordance with the drawings and plans. Their role also includes checking the standards of workmanship and the qualities of materials being use on site.
Answer:

This person is responsible for the day-to-day planning and running of the site. And liaise between the contracts manager and the building contractors.
Answer:

This person works with cables and connects one of the essential services to the building work taking place.
Answer:

This person works under the site agent and is the first point of contact for advice on minor issues that may occur on site.
Answer:

This person applies finishing's to external and internal walls, they also screed floors, fix plaster boards and run decorative mouldings.
Answer:

This person works mostly with timber they make, fix and repair timber components in a building and are involved in both internal and external works
Answer:

This person arrives at the overall cost for carrying out the building contract. They will break down the cost of labour, materials hired equipment plus all the overhead costs. i.e. administration salaries.
Answer:

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'Plumbing Tools' Activity

Click on the link below and watch the video to answer the following questions.

<https://www.plumberparts.co.uk/pages/Interactive-House-Plumbing-Tools>

How many tool bags does this plumber have?
What brand does this plumber say is 'the best tape measure ever'?
What 3 types of screwdriver head does he keep in his tool bag?
What is the Rothenberger Rocut used for?
What does this plumber say he 'loves'?
What tool does he have 6 of spread around different bags?
What advice does he give about junior hacksaw's?
Why are the Allen keys colour coded?
What advice does he give if spanners are rusty to get them working again?
What advice does he give about levels?

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Electrical Installation Activity

The way we look at construction in our environment is rapidly changing, in particular the way we generate and use electricity. The way we heat and power our houses is currently inefficient and a whole new generation of technologies are rapidly appearing, powered by electricity and often controlled over the internet.

The role of the electrician is changing too; no longer will it be enough that you can wire and power up a building, you will need to understand, install and maintain integrated systems. An example would be whole house systems where the lighting, heating, security, sound and video systems all come together and can be controlled by a single app on your smart phone. These are becoming more common by the day

Have a look at this video clip to see how the whole construction industry is changing and imagine your part in it

<https://www.youtube.com/watch?v=umeJoOoau6M>

Activity

Match the words below to the appropriate power sources. Research each one and describe how it works (for example the coal fired power station works by burning coal to produce steam, which is used to produce electricity)

HYDROELECTRIC




SOLAR

COAL FIRED




GEOTHERMAL

WIND

NUCLEAR

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Finally, take a look at this clip to see what a sustainable city might look like. Remember that all of this is ultimately powered by electricity, and this is where you come in.

<https://www.youtube.com/watch?v=WCKz8ykyI2E>