

CONSTRUCTION

STUDY PACK



HCUC

A merger between Uxbridge College and Harrow College



APPLICATIONS FOR 2020-21 COURSES ARE NOW OPEN - APPLY NOW

THE SECTOR: Worth £103 billion per year and employing over 2.1 million people, the UK construction sector is one of the biggest in the economy and covers all aspects of the building and improvement of structures like houses, airports, motorways and shopping centres.

DID YOU KNOW? In the UK, there is currently a shortage of both houses and qualified tradespeople to meet this demand.

THE PROSPECTS: Qualified tradespeople are commanding very good rates of pay. Achieving a qualification by studying one of our construction courses can enable you to progress onto further education in your chosen field or employment in this vast sector either skilled or semi-skilled in roles such as Pipefitters, Gas service technicians, Residential installation and maintenance, Residential plumbing technicians, Lighting technicians, Service engineers... You could also take your qualification and experience into other industries such as distribution, film, education/teaching etc

LOCATION: Students will be based in our new purpose built construction facility at the Harrow Weald Campus.



HANDS ON: Our construction courses include many opportunities for you to get hands-on experience of the world of work, including:

- practical work experience with market leaders and local professional companies in this field
- opportunities to enter World Skills competitions to showcase your skills against the best students from around the world
- engagement with guest speakers from businesses like Willmott Dixon, UK Power Networks, Track pipe and Bosch
- access to free training, tools and equipment from companies such as Worcester Bosch who sponsor the plumbing department

- the opportunity to work in the construction industry through our sector employer contacts including work experience placements that often lead to full time positions

OUR COURSES: We offer a range of courses from C&G Level 1 Diploma in Construction Skills (6219-07), designed for students with Entry 3 qualifications in numeracy and literacy wishing to start working or training in the construction sector, learning: carpentry, brickwork and plumbing repairs as well as painting and decorating to our more specialised Levels 1, 2 in Plumbing and Electrical Installation and Level 3 where you would cover specific topics related to these courses including health and safety. We also offer apprenticeships in Plumbing and Electrical Installation. Please visit our website for more details of courses and entry requirements www.harrow.ac.uk

All construction students will be working towards their **CSCS cards** which will enable them to go on site and get valuable knowledge and training. This is designed to prepare students to get jobs in the construction industry which will help them get a foot in the door.

MATHS & ENGLISH – WHY? You will need to be able to calculate measurements accurately and work out basic calculations needed for carry out tasks. You also need to be able to communicate effectively with customers, suppliers and colleagues in this industry.



English and mathematics are considered corner stones of education and training in the UK and level 2 in these subjects is considered a pre-requisite for many courses and careers. The skills required to do well in these subjects are valued highly, and that's why they are a necessary part of college study. If you do not already have these, you will be required to take them alongside your main course.

IS IT FOR ME? Are you prepared to learn, take part and work hard? Are you practical, enjoy working with your hands, using tools, finding and fixing faults? College life is different to being at school, you will need to be able to work independently as well as with your fellow students and lecturers. You will study in a field you have an interest and are thinking of specialising in.

During your time at Harrow College you will have the opportunity to take part in several different enrichment activities. These will increase your enjoyment of college and equip you with necessary skills for your future. We have a very diverse range of activities on offer which change on an annual basis to suit the needs of our current students. Visit our website

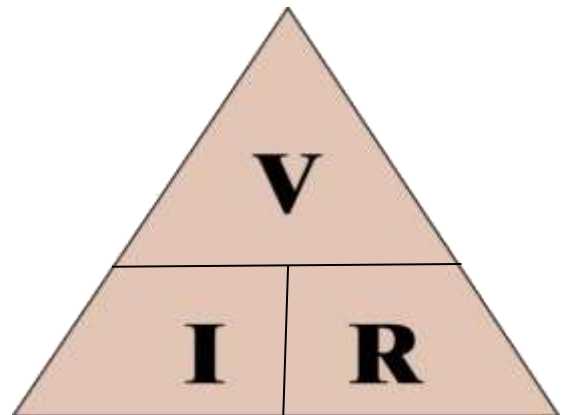
HAVE A GO AT...

for more details

www.harrow.ac.uk

OHMS LAW

Electricians use a simple triangle shape to show the relationship between Voltage (V) current (I) and resistance (R) as shown in the triangle:



To find the unknown quantity within the triangle, cover the unknown quantity, i.e:

- To find V: multiply $I \times R$
- To find I: divide V by R
- To find R: divide V by I

Try these questions:

1. The voltage in a circuit is 30 Volts and the current flowing is 2 Amp. Calculate the resistance.
2. A circuit has a resistance of 50 Ohms and a current of 3 Amps flows. What is the Voltage?
3. What current will flow in a circuit with a resistance of 23 Ohms and a voltage supply of 230 Volts?

Answers: 1. ($R=V/I$) 15 Ohms 2. ($V=I \times R$) 150 Volts 3. ($I=V/R$) 10 Amps

NAME THESE TOOLS AND WHAT ARE THEY USED FOR?

Tool	What is the name of the	What is it used for?
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	tool?	
		
		
		
		
		
		

Personal Protective Equipment (PPE) and why do we use it?

PPE	What is it called?	What does it protect against?
		
		
		
		
		
		

CONTACT US:

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