

Getting Ready to Study Engineering at College (Fabrication & Welding)

The 'Getting Ready' list below gives you resources and activities you can use to get ready for when your course starts at Colchester Institute in September. We have picked mostly resources and activities you can access on-line and we have some suggestions too of other resources in the 'Going Further' section.

Getting Ready to study Fabrication & Welding at Colchester Institute

In order to be best prepared for your next step we think it is beneficial that before you come on to this course that you try to get to grips with some basic fundamentals within your course that you have chosen to study.

As a Welder/Fabricator it is necessary to understand how to read a rule and tape measure for performing simple everyday marking out tasks so it would be of great benefit to understand how to read these correctly.

<https://www.youtube.com/watch?v=m9cBpaKYG2c> reading a rule

Another key element within our faculty of Engineering is of course safety and certain key health and safety at work acts, with this in mind it would be advantageous if you could frequent yourself with the various safety signs and the various laws and legislations within Engineering (for example the Health and Safety at Work Act 1974). Look at the link below and familiarise yourself with your duties' as an employee.

<https://www.hse.gov.uk/legislation/hswa.htm> health and safety

For the theory aspect of the course there is a big element of understanding how engineering businesses work and function and employing the use of business improvement techniques such as: Lean, 5S, Kanban and Just in Time (JIT).

<https://www.process.st/lean-manufacturing-principles/> business improvements

Going Further to study Engineering at Colchester Institute

<https://www.youtube.com/watch?v=vkPlzmalvN4> reading a metric Vernier

<https://www.youtube.com/watch?v=twUAa5LWUvk> mig welding

<https://www.youtube.com/watch?v=uO5pVLOAmD4> tig welding

<https://www.youtube.com/watch?v=elmDvgdeMKI> mma welding

You can find information for new students at:

<https://www.colchester.ac.uk/further-education/applying-full-time-courses/>