

Getting Ready to Study Engineering at College (Mechanical & Electrical Maintenance)

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 Maintenance 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 Maintenance engineer it is necessary to understand how to read an ammeter and voltmeter for performing tasks so it would be of great benefit to understand how to read these correctly and how-to problem solve.

<https://www.youtube.com/watch?v=NLPShwDUYrY> ammeters and voltmeters

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://en.wikipedia.org/wiki/Maintenance_engineering maintenance engineering intro

<https://www.youtube.com/watch?v=CztiI0re5Eo> ohm's law

You can find information for new students at:

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