

## Course aim

A level 3 course designed to support entry to higher apprenticeships and Technician level employment in a wide range of engineering disciplines. The course will provide opportunities for candidates who have existing level 2/3 qualifications experience but wish to bridge this experience to STEM higher areas. The course will include:

- Maths for Engineers
- Science for Engineers
- Study & employment skills
- Engineering Workshops in Mechanical and Electrical Engineering leading to a project

## Topics you will study

- Application of algebra, understanding applications of SI, units and measurement
- Understand fundamental scientific principles of mechanical engineering
- Kinematics
- Simplification of polynomials -Dynamics
- Simplify and solve equations -Transposition of formulae and force, work and power
- Solve linear simultaneous equations with two unknowns using: solve quadratic equations and fundamental scientific principles of electrical and electronic engineering
- Solving using exponentials and logarithms - using inverse function, log laws and voltage, current & resistance
- Angles and radians -problem solving with arcs, circles, sectors and electric fields & capacitance
- Problem solving involving right-angled triangles -problem solving involving non-right angled triangles and Series RC circuits and characteristics
- Problem solving involving right-angled triangles, problem solving involving non-right angled triangles and Series RC circuits and characteristics
- Solve problems involving indefinite integration and basic material properties

## Class times and dates

6 hours per week for 12 weeks. 9am to 4pm from 14 September 2023 to 17 December 2023 for technical sessions. Projects will be undertaken on an evening basis from 5pm to 7.30pm. All sessions will be delivered in the National College for Nuclear at Lakes College, Lillyhall.

## Costs

Studying this Skills Bootcamp course costs £2,998 per learner.

## Employer Costs

- Large employer at 30% (£899.40) contribution. This is fantastic value for money with a 70% reduction.
- Micro, Small and Medium employer at 10% (£299.80). This is fantastic value for money with a 90% reduction.

## Learner Costs

The training is free if you meet the following criteria:

- Aged over 19 years of age
- Working, recently unemployed within the last 12 months or looking for work e.g. coming back into the workforce after a career break
- Resident in the UK and legally entitled to work in the UK
- The Skills Bootcamp is also free of charge for learners who are employed but not sponsored by their employer.

**This course will be starting on 14 September 2023 for 12 weeks**

GCSEs in Maths, English and Science at grade 4 (C) are required.

Scan the QR code, visit our website ([www.lcwc.ac.uk](http://www.lcwc.ac.uk)) or email [admissions@lcwc.ac.uk](mailto:admissions@lcwc.ac.uk) for more information!

