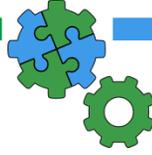


Partners With Industry



Introduction to Automation & Controls

COURSE OUTLINE

Course Content

A Beginners guide to Automation and PLC Controls

Focused upon Individuals who are new to Automation with the aim of describing how PLC's work, why they are used and how they interface with a machine. The course is also ideal for anyone who works in a Manufacturing Environments since it covers how PLC controls affect and are critical to production.

- An introduction to how to PLC's control machinery
- The Impact of PLC Controls on Production & Productivity and how small changes can have significant effects
- An overview of how PLC's work and an introduction to the "Program Cycle" which controls the machine
- An introduction to networking and how PLC's communicate
- An introduction to Ladder Logic and Boolean Algebra
- Understand the different Datatypes and numbering systems found on PLC's
- Writing a simple PLC Program
- How HMI's work
- How inverter drives work and how they are controlled by PLC's
- How SCADA systems work



About Us

We Are a Skills Based Company

We back up our Services & Training with Genuine Real World Industrial Skills Experience.

Ongoing Support

We don't just finish with Training, we offer ongoing support to help you get the best Value and Return from your investment and Implement your training in the **Real World**



Flexible Training

Our Practical, Real World Training adapts to your requirements and is On-Site, On-Shift at Any Time to improve the knowledge of your team to Increase Production and become More Efficient

Partners With Industry is a registered Community Interest Company

Being a Community Interest Company by using our products and services you will also be supporting your local community since we are committed to provide the link between communities and industry, with the primary aim to enable people from the community regardless of their background to access the opportunity to learn the skills required for the modern workplace which are normally impossible to achieve including:

- Community Based Training will increase the skills in the community of individuals who have difficulties gaining employment. Through training we will be able to increase people's confidence, self-esteem and employment prospects. This will bring people closer to the job market and will address issues of unemployment, improving the economic wellbeing and resilience of communities.
- Our Community Skills Projects are focused in any area of the UK where a skills need has been identified which can help people in that community get into employment. Focused at the increasingly dominant Automated Industry, some sectors within the UK are struggling to create jobs in today's turbulent climate, many engineering companies are still finding it difficult to find suitable people to fill positions, therefore we have chosen the community skills projects **AutomationSTART.**

