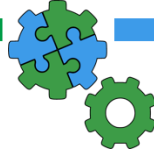


Partners With Industry



Controls System Fault Finding

COURSE OUTLINE

Course Content

Finding and Fixing Faults with Machines

Being able to fault find on automated systems is a very powerful tool/skill when determining problems with automated technology, also it is especially useful to help determine problems with electrical or mechanical components within automated cells and can significantly reduce downtime. This course is ideal for anyone involved with Fault Finding and Fixing problems on machines.

- Setting up communications with PLCs via a network
- Backing up the PLC & other associated hardware before commencing Fault Finding
- Comparing Online/Offline PLC Programs
- Carrying out input and outputs checks
- Learning to understand PLC Programs and how they are structured
- How Function Blocks work
- How Data Blocks work
- Communicating with network devices and components
- Replacing damaged PLC`s, Expansion hardware or network devices
- Understanding the common structures used in PLC programs i.e. sequential programs and memory bits
- Cross referencing programs
- Making basic program modifications how to get a machine operational
- Programming and using memory bits
- Fault finding using HMI`s
- Fault Finding control systems which include Inverter Drives
- How analogue control works
- Process control including PID, scaling and calibration program blocks
- Fault Finding using SCADA system
- Learning about the different sensors and why they are used



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.**

