Logical Approach to Fault Finding

FF111

The range of technologies found on modern production plants presents maintenance engineers with many challenges, especially when faced with indentifying faults. Whilst a sound technical knowledge is vitally important, a logical and structured approach to fault finding is also necessary to reduce the time taken to identify the problem and get production up and running again.

This module is designed to develop the fault finding skills of maintenance technicians/engineers. The process of fault finding is the focus of the course. External factors that can affect the process are discussed as well as methods, tools and practices that can assist in identifying faults. Although the course is ‘technology neutral’ exercises using pneumatic equipment are used to practice the skills and methods.

Target group

Maintenance technicians/engineers with responsibilities to fault find on machines.

Previous knowledge

General engineering background, experience in a maintenance environment.

Syllabus

• The basic structure of controls – input, processing, output
• Effective fault finding – what helps, what hinders
• Define terms in relation to fault finding – fault, symptom, cause, root cause
• Methods for describing processes – circuit diagrams, displacement diagram, flow diagram
• The fault finding process
• Comparison of fault/problem solving processes: deming cycle, 8D report, DMAIC
• Practical fault finding on pneumatic circuits

Training outcomes

On completion of this course the participant will:

• Be aware of the factors affecting the individual approach to fault finding
• Understand the terminology associated with fault finding processes
• Know different methods for describing machine functions and sequences
• Be able to adopt a structured approach to fault finding
• Be able to describe different fault/problem solving processes
• Have practiced fault finding techniques using pneumatic training equipment

Course duration

One day

Order number/price

12234822/£265.00

For course dates and booking: call 01604 667584 or visit www.festo-didactic.co.uk/training