

## COURSE TITLE : MECHATRONICS SYSTEM TROUBLESHOOTING

### COURSE OVERVIEW

This course focuses on mechatronics system troubleshooting where participants will be given an overview of mechatronics system and its sub-components. Based on this overview and technical documentations, participants will learn to analyze a mechatronics system and subsequently produce an energy flow diagram. This diagram will be an essential tool for a fast but systematic and accurate system's troubleshooting. At the end of this course, participant's troubleshooting skills will be tested with fault finding exercise on a real mechatronics system.

### COURSE OBJECTIVES

At the completion of this course, participants will be able to :

- Identify main elements in a mechatronics system
- Read, analyze and utilize the technical documents for a mechatronic system
- Trace and describe the flow of energy in a given mechatronic system
- Carry out measurements on electrical components in a mechatronic system.
- Correctly localize, identify and document causes of malfunctions in mechatronics system.

### THE UNIQUENESS OF THIS COURSE

- Energy flow diagram as important tool in systematic troubleshooting
- Troubleshooting exercise on a real mechatronics system.

### WHO SHOULD ATTEND

This course is designed to those who are responsible in maintaining production machines.

### TARGET GROUP

Production technicians and engineers

### KEY TOPICS

- Systematic system troubleshooting
- Fault finding exercise

### METHODOLOGY

Step by step approach in identifying source of system's malfunctions, tracing of signal flow and localize problems. Consists of lecture and practical exercise.

### COURSE DURATION

3 Days

### PRE-REQUISITE

Basic understandings of electrical, mechanical, pneumatic and hydraulic components is an added advantage.

### CERTIFICATION

Certificate of attendance will be issued to those who successfully completed the course.

Minimum participants: 6

**CONTACT PERSON:** Mr. Ravdarn Raman, 03-8921 9046 or 012-2656041 or email [ravdarn@gmi.edu.my](mailto:ravdarn@gmi.edu.my)

