

Course Title: Practical Mechatronics 1 (SMC International)

Course Code: PC 106

Course Background / Summary:

SMC Practical Mechatronic 1 Training is a transformative program led by certified SMC Mechatronics trainers. Designed for both industry professionals and the public, this hands-on training focuses on essential mechatronics components, including Programmable Logic Controllers (PLC). Participants gain practical insights into system design and troubleshooting, preparing them for dynamic roles in mechatronics. Elevate your skills with industry-recognized expertise and real-world applications in this comprehensive training.

Course Objectives:

- Design pneumatic/electro-pneumatic circuits
- Assemble and operate electro-pneumatic manipulators
- Make and modify electro-pneumatic manipulator program.
- Troubleshooting diagnosis and repair

Target Audience:

- Personnel involved in the design, installation, or maintenance of systems that contain pneumatic, electro-pneumatic, and PLC equipment

Course Duration: 4 Days

Course Contents

1.0 Theory Bases of Electro Pneumatics

5.0 Assembly Procedures

2.0 General Overview of Projects

6.0 Grafcet in Program Planning

3.0 Pneumatic Diagram Explanation

7.0 Practical Activities

4.0 Wiring Diagram

8.0 Test