

## **Classic Control & Troubleshooting**

Venues

Jakarta

(\$)Fees

Book your seat

21 Dec -25 Dec 2025

3300

Register Now

Objectives

- · Understand all basics of any control panel and its complicated connections
- Able to connect any production line with classical control
- Make start stop power and control circuit for 3ph induction motor
- Make reverse direction circuit for 3ph induction motor
- Star delta motor and Dahl ender motor
- More than 10 other circuit with classic control
- Sensors types & connection

Course Outline

Day 1 (Basics of electricity for any control engineer)

- 1. Sources of electricity and standard
- 2. Balance loads and un balance loads
- 3. Earth , neutral and ground
- 4. Short circuit protection
- 5. Overload protection
- 6. Cables selection and testing
- 7. Phase sequence protection
- 8. Switches types
- 9. Troubleshooting

Day 2 (classic control basics)

- 1. Contactors (types & selections)
- 2. Start stop power and control circuit for 3 Ø induction motor
- 3. reverse direction for 3 Ø induction motor
- 4. methods of starting of motors
- 5. soft starter
- 6. star delta motor
- 7. reverse direction for star delta motor

Day 3 (Practical all day)

1. all the previous application

Day 4 (practical applications)

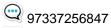
1. application on timers

Day 5 (sensor application)

- 1. proximity sensors
- 2. limit switches
- 3. optical sensors
- 4. temp sensors
- 5. Pressure sensors

## WORKSHOP STYLE

The workshop will be of five day's duration consisting of interactive learning sessions, videos, examples and role-play exercises to provide the delegates with the knowledge and experience of using the key learning issues and techniques.



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