



First Select

## Classic Control & Troubleshooting

بتاریخ	اماكن الإنعقاد	الرسوم (\$)	احجز مقعدك
٠٨ ديسمبر - ٢٠٢٤	جاكرتا	٣٣٠٠	<a href="#">سجل الآن</a>

### 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 Dahlander motor
- More than 10 other circuit with classic control
- Sensors types & connection

### Course Outline

Day 1 (Basics of electricity for any control engineer)

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

## Day 2 (classic control basics)

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

## Day 3 ( Practical all day)

all the previous application	.1
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## Day 4 ( practical applications)


application on timers	.1
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## Day 5 ( sensor application)

proximity sensors	.1
limit switches	.2
optical sensors	.3
temp sensors	.4

## 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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