
SECTION HEADING

ELEC 2205: Electric Motor Controls I

Description

Electric Motor Controls I instructs students in the use of electrical tools, instruments, safety equipment, electrical symbols, line diagrams, AC manual contactors and motor starters, AC magnetic contactors and motor starters, time delay logic and control devices.

Credits

4

Prerequisite

ELCO 1100 or ELCO 1110.

Topics to be Covered

1. Basic motor control circuits
2. Relays, contactors and motor starters
3. Timing circuits
4. Reversing Circuits

Learning Outcomes

1. Identify motor control symbols
2. Interpret ladder, schematic and wiring diagrams
3. Describe control relay, contactor and motor starters
4. Describe motor overload protection
5. Describe motor short circuit-ground fault protection
6. Describe motor jogging circuit
7. Describe 2-wire and 3-wire control circuits
8. Describe on-delay and off-delay timing circuits
9. Describe reversing circuits
10. Wire 2-wire and 3-wire control circuits
11. Wire motor jogging circuits
12. Wire timing circuits
13. Wire reversing circuits
14. Troubleshoot motor control circuits

Credit Details

Lecture: 1

Lab: 3

OJT: 0