

IEC's Electrical Apprenticeship Program

4th Year Course Outline



First Semester

Orientation and Safety

Community First Aid & Safety

Community First Aid & Safety

Solid State Electronic Control Devices

Electromechanical and Solid State Relays

Advanced Controls Lab #1

Photoelectric and Proximity Controls

Programmable Controllers

Advanced Controls Lab #2

Mid-Term Review and Exam

Reduced Voltage Starting

Accelerating and Decelerating Methods

Advanced Controls Lab #3

Preventative Maintenance and Troubleshooting

Advanced Controls Lab #4

Leadership

Semester Review

Semester Exam

Second Semester

Using Digital Multimeters to Diagnose Power Quality

National Electrical Code® and Related Standards, Safety Regulation, Power Systems

Power Distribution Systems

Services, Switchboards, and Panelboards

Conductors and Overcurrent Protection Devices

Grounding

Designing and Installing Wiring Systems

Branch and Feeder Circuits

Mid-Term Review and Exam

Receptacle and Lighting and Switching Outlets

Motors and Compressor Motors

Hazardous Locations

Hazardous Locations, Special Types

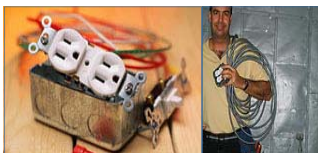
Signs and Sign Connections

Load Calculations

Final Code Review and Test Preparation

Fourth Year Review

Fourth Year Final Exam



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