Course Title: Commercial Industrial Wiring

Course web page: http://www.collin.edu/ce/courses/commercial_industrial_wiring.html

Course Description: This class is covers wiring knowledge and skills required for wiring in commercial locations. Class will cover conduit and flexible cable installation and use, motors and motor controls, transformers, hazardous locations, and wire selection. Three phase power will be covered as well as selection of proper electrical components.

Suggested Course Prerequisite(s): Basic electrical wiring is a prerequisite.

Materials Needed: None

Course Objectives:
1. Learn proper materials for commercial environments
2. Learn to recognize hazardous environments
3. Learn motor basics
4. Learn transformer basics
5. Learn three phase power and multi-wire circuits

Textbook(s): None

Course Sessions: listed are a guideline to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

Lesson Plan – by week or session
Session 1 Three Phase Power
Multi-wire circuits

Session 2 Commercial materials
Materials lab – EMT Conduit

Session 3 Transformers
Materials lab – MC Cable

Session 4 Motors
Raceways and boxes

Session 5 Commercial Conductor Sizing
Special Occupancies

Method of Evaluation: Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of the class time in order to be considered a successful completer of the course.
Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.

Students must complete all courses (core and no. of elective courses needed) to complete a certificate series within two years from start date of the first course taken.

**Americans with Disabilities Act:** Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-G200 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.

http://www.collin.edu/studentresources/personal/studenthandbook.aspx