Faculty are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Collegewide Curriculum Committee.

COURSE TITLE: Industrial Wiring  COURSE NUMBER: ELEC 2220

COURSE DESCRIPTION:
The installation methods and materials used in industrial wiring. Topics include: transformer and motor selection, busways, grounding and hazardous locations.

3 Credits (1 lect/pres, 2 lab, 0 other)

COURSE GOALS:
The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives. (*designates a CRUCIAL goal)

1. exhibit quality work
2. apply National Electrical Code (NEC)
3. describe conduit applications
4. identify conduit sizes
5. make box offset
6. describe conduit types
7. use hacksaw
8. use pipe cutter
9. thread pipe
10. ream pipe
11. bend 90 degree stub
12. bend standard offset
13. bend three-bend saddle
14. bend four-bend saddle
15. bend back-to-back
16. bend rigid stub
17. bend rigid box offset
18. bend rigid standard offset
19. bend rigid three-bend saddle
20. bend rigid four-bend saddle
21. bend rigid back-to-back
22. make kick bend
23. operate hydraulic bender
24. describe PVC bending heat techniques
25. install rigid pipe
26. operate wire puller
27. use fish tapes
28. calculate maximum conduit fill
29. identify conduit bodies/covers
30. apply conductor derating factors
31. describe industrial system protection
32. describe power distribution methods
33. describe ground detection system
34. describe power distribution methods
35. describe industrial metering

ATTENDANCE:
Students will be required to attend a minimum of 95% to satisfactorily complete this course.
"This course will cover the characteristics of hazardous wastes and its safe handling, storage, and disposal."

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are also encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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