

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. ELEC

COURSE NUMBER: 2235

NUMBER OF CREDITS: 2

Lecture: 2 Lab: 0 OJT: 0

Course Title:
National Electric Code IV

Catalog Description:
National Electric Code IV examines the National Electrical Code Requirements for Commercial and Industrial installations. Determine grounding and bonding requirements. Examine definitions and installation concerns in hazardous locations.

Prerequisites or Necessary Entry Skills/Knowledge:
ELEC 1205

FULFILLS MN TRANSFER CURRICULUM AREA(S)

- ☐ Goal 1: Communication: By meeting the following competencies:
- ☐ Goal 2: Critical Thinking: By meeting the following competencies:
- ☐ Goal 3: Natural Sciences: By meeting the following competencies:
- ☐ Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- ☐ Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- ☐ Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- ☐ Goal 7: Human Diversity: By meeting the following competencies:
- ☐ Goal 8: Global Perspective: By meeting the following competencies:
- ☐ Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- ☐ Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered
Raceways and materials
Equipment grounding and bonding
Hazardous Locations

Student Learning Outcomes
Determine equipment grounding conductor size
Determine grounding electrode conductor size
Examine IMC and rigid metal raceways
Calculate pull box sizing

Evaluate Class I location definition and requirements
Evaluate Class II location definition and requirements
Evaluate Class III location definition and requirements

Is this course part of a transfer pathway: Yes ☐ No ☒

Revised Date: 02/14/2020