Course Title:
Applied Electrical Calculations

Catalog Description:
Applied Electrical Calculations performs basic math necessary for solving electrical circuits. Read word problems and decide what they are asking for. Calculate math problems. Calculate Ohm’s law formulas.

Prerequisites or Necessary Entry Skills/Knowledge:
None

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
☐ 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
Adding, subtracting, multiply, and dividing math problems

Student Learning Outcomes
Perform basic math skills
Substitute given values to Equations/Formulas
Solve circuits using Ohm’s Law
Calculate (multiply/divide) scientific notations of numbers
Solve problems using algebra
Decide what they are asking for in word problems
Is this course part of a transfer pathway: Yes  No  X
*If yes, please list the competencies below

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