HIBBING COMMUNITY COLLEGE
COURSE OUTLINE

COURSE TITLE & NUMBER: Algebra for Electricians: ELM 1006
CREDITS: 1 (0 Lec / 1 Lab)
PREREQUISITES: ELM 1005: Mathematics for Electricians

CATALOG DESCRIPTION:
ELM 1006: Algebra for Electricians presents algebraic skills essential in the Electrical field. Algebra solutions, simultaneous equations, graphing and vectors are included. Electrical applications and projects will be incorporated.

OUTLINE OF MAJOR CONTENT AREAS:
1. Algebra
2. Solving Formulas and Equations
3. Simultaneous Equations
4. Ratio and Proportion Applications
5. Computer Number Systems

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will solve first degree equations using addition, subtraction, multiplication, division operations.
2. Students will solve and check multiple step equations.
3. Students will solve multiple operation formulas for desired variable.
4. Students will practice calculator applications.
5. Students will apply problem solving techniques.
6. Students will complete assigned projects.
7. Students will perform assigned tasks.
8. Students will maintain active class participation.

MNTC GOALS AND COMPETENCIES MET:
N/A

HCC COMPETENCIES MET:
Thinking Creatively and Critically

STUDENT CONTRIBUTIONS:
The student is expected to attend all class meetings and working sessions, accurately complete all assignments, tests, and projects on time, and participate in activities as directed. Attendance is critical.
STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.

ADDITIONAL INFORMATION:
ELM 1006: Algebra for Electricians requires students to maintain a minimum of 95% attendance. Attendance below 95% may be made up by completing a one credit make-up class. This credit must be pre-approved by the course instructor. Three less than full days (tardy or leaving early) will equal one full day absence. Without 95% attendance and not taking the one credit make-up class will result in retaking the course.

Scientific calculator is required.

AASC APPROVAL DATE: November 15, 2017
REVIEW DATE: November 2022