COURSE TITLE & NUMBER: Print-reading/Specifications and Lighting Systems: ELM 2101
CREDITS: 5 (2 Lec / 3 Lab)
PREREQUISITES: ELM 1101, 1201, 1301, 1102, 1202, 1302 or instructor’s approval

CATALOG DESCRIPTION:
Print-reading/Specifications and lighting systems instructs the students in the identification and usage of blueprints and specifications, and the identification, installation, and maintenance of lighting systems.

OUTLINE OF MAJOR CONTENT AREAS:
1. All safety considerations
2. Identify applicable National Electrical Code Articles
3. Residential/commercial blueprints
4. Residential/commercial specifications
5. Lighting systems
   A. Emergency
   B. Incandescent
   C. Electric Discharge
   D. Troubleshooting systems

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will identify and use residential blueprints and specifications.
2. Students will identify and use commercial/industrial blueprints and specifications.
3. Students will identify special electrical drawings.
4. Students will define luminaries.
5. Students will define lighting systems.
6. Students will troubleshoot lighting systems.
7. Students will install lighting circuits.
8. Students will define luminaries’ types and styles.

MNTC GOALS AND COMPETENCIES MET:
N/A

HCC COMPETENCIES MET:
Working Productively and Cooperatively
Communicating Clearly and Effectively
Social / Civic Responsibility
STUDENT CONTRIBUTIONS:
The student is expected to devote the time necessary to become adept at analyzing the material and their application to installation, troubleshooting and maintenance procedures.

STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTORS.

ADDITIONAL INFORMATION:
ELM 2101 requires students to maintain a minimum 95% attendance. Attendance below 95% may be made up by completing a 1-credit class. The 1-credit class will equal three days of absence. This credit must be pre-approved by the course instructor. Three less than full days (tardy or leaving early) will equal a full day absence. Attendance of less than 95% and not taking the 1-credit makeup class will result in retaking the course. National Electrical Code (Current Edition)

Tools as per tool list and safety glasses

Curriculum Committee Approval Date: February 7, 2018

AASC APPROVAL DATE: February 21, 2018
REVIEW DATE: February 2023