Bemidji State University

TADT 1350: Electrical/Electronic Technology

A. COURSE DESCRIPTION

   Credits: 3
   Lecture Hours/Week: *.*
   Lab Hours/Week: *.*
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None
   Fundamental principles of electricity and electronics. Various topics are explored including basic circuits, transformers and motors.

B. COURSE EFFECTIVE DATES: 08/25/2014 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

   1. AC/DC
   2. Digital Electronics
   3. Electrical codes
   4. Electrical safety
   5. Fiberoptics
   6. How electricity works
   7. Intro. to components and reading schematics
   8. Kirchoff’s Law
   9. Lab Safety - BSU general lab policy
   10. Occupations in electricity/electronics
   11. Ohm’s Law
   12. Portfolio of course materials
   13. Print reading, basic wiring, and materials of the trade
   14. Producing and distributing electricity
   15. Research report on specified topic
   16. Soldering
   17. Terminology
   18. Use of the multimeter

D. LEARNING OUTCOMES (General)

   1. be presented topics through lecture, discussion, and demonstration that are relevant to Technological Studies Department emphasis and career areas relating to electricity and electronics
   2. use the computer lab and library as well as other reference sources

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

   None
F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted