Minnesota State College Southeast

ELEC 2232: Home Technologies II

A. COURSE DESCRIPTION

Credits: 2
Lecture Hours/Week: 2
Lab Hours/Week: *.*
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

The student will learn about the basic concepts, terminology, equipment, and the techniques that are needed in the development of control systems. X10 and Omni II systems will be programmed and troubleshooted. (Prerequisites: ELEC1402.) (2 credits: 2 lecture/0 lab)

B. COURSE EFFECTIVE DATES: 02/18/2011 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
D. LEARNING OUTCOMES (General)
   1. Analyze local area network components
   2. Explain power line control technology
   3. Identify X10 technology
   4. Explain phase couplers
   5. Identify house and unit codes
   6. Analyze network function
   7. Identify three and four way light circuits
   8. Analyze terminology
   9. Analyze macro
  10. Identify timers
  11. Categorize network standards
  12. Identify hardware
  13. Operate controller
  14. Identify bus topology
  15. Analyze alarm loops
  16. Develop alarm zone plan
  17. Build alarm loop
  18. Check network terminations
  19. Associate sending functions
  20. Identify network cabling
  21. Associate controller functions
  22. Apply cable terminations
  23. Troubleshoot controller
  24. Associate bridge functions
  25. Understand basic codes
  26. Associate interface functions

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted