

# Minnesota State College Southeast

## INDS 1616: Introduction to Construction

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers the basic construction principles and techniques that will be common to an industrial environment. Topics include safety, tool identification and use, wall construction, estimating, and materials lists, drywall and taping techniques, construction blueprint reading, architectural symbols, precautions working with dust, OSHA approved shelving and installation. (Prerequisite: None) (3 credits: 2 lecture/1 lab)

**B. COURSE EFFECTIVE DATES:** 09/23/1998 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Demonstrate safety
2. Identify basic construction tools
3. Identify various construction materials
4. Demonstrate basic power tool use
5. Demonstrate proper hand tool use
6. Identify architectural symbols
7. Prepare a materials list
8. Use various framing materials
9. Construct a wall
10. Interpret basic construction blueprints
11. Demonstrate drywall applications
12. Demonstrate drywall taping
13. Analyze building permit application process
14. Demonstrate basic estimating
15. Identify construction code compliance
16. Identify hazardous materials
17. Examine construction project management
18. Demonstrate hazardous material handling techniques
19. Practice dusty environment precautions
20. Demonstrate OSHA approved shelving construction methods
21. Demonstrate proper wall repairs
22. Disassemble a wall

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

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted