CARP 1125: Carpentry Lab 1

A. COURSE DESCRIPTION

Credits: 5
Lecture Hours/Week: *.*
Lab Hours/Week: 10
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

This course is used to practice the theory learned in Framing Theory I, Concrete Construction, and Cabinetry 1. This will cover a number of projects pertaining to footings, foundation, flatwork, wall framing, roof design, and cabinetry. (Prerequisite: none) (5 credits: 0 lecture/5 lab)

B. COURSE EFFECTIVE DATES: 02/06/2018 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Awareness of the Importance of Safety
2. Hands-on Relation to Other Classes
3. Additional Working Time on Carpentry and Concrete Skills
D. LEARNING OUTCOMES (General)
1. Exhibit and observe safety rules 
2. Prepare footing base 
3. Lay out foundation walls 
4. Lay out foundation wall openings 
5. Assemble foundation walls 
6. Brace foundation walls 
7. Erect foundation walls 
8. Waterproof foundation walls 
9. Install drain tile 
10. Pour and finish flatwork 
11. Demonstrate team work 
12. Install columns 
13. Install girders 
14. Install bearing walls 
15. Install sills 
16. Lay out header joist 
17. Install header joist 
18. Install joist 
19. Install cantilever joist 
20. Frame floor openings 
21. Install solid blocking 
22. Install bridging 
23. Install squash blocks 
24. Define balloon framing 
25. Locate walls 
26. Determine header lengths 
27. Lay out wall plates 
28. Build headers 
29. Cut shoulders 
30. Cut cripples 
31. Cut rough sills 
32. Build partition trough 
33. Build corner posts 
34. Assemble wall components 
35. Apply wall sheathing 
36. Raise walls 
37. Apply top plate 
38. Install wall braces 
39. Install backing 
40. Install associated trade's framing 
41. Install partition backing 
42. Install wall accessories backing 
43. Frame bay window 
44. Frame bow window
45. Install flush header
46. Install hip roof joist
47. Install gable roof joist
48. Install two way joist system
49. Install inverted header
50. Frame ceiling opening
51. Install cathedral ceiling
52. Common frame hips and valleys

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

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted