

Minnesota State College Southeast

VLNR 1301: Introduction to Tools

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: *.*

Lab Hours/Week: 4

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers hand tool preparation and use, and power tool safety, set up, adjustment and use. Time is spent on tool preparation and sharpening and some tools are made. Accurate measuring, marking and shaping using hand and power tools is practiced. (Prerequisite: None) (2 credits: 0 lecture/2 lab)

B. COURSE EFFECTIVE DATES: 01/29/2013 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Adjust bandsaw blade guides
2. Adjust sanding belt tracking
3. Burnish long cabinet scraper edges
4. Change bandsaw blades
5. Complete all text study guides
6. Complete assigned shop clean up
7. Complete assigned shop projects
8. Demonstrate safe bandsaw use
9. Demonstrate safe belt/disc sander use
10. Demonstrate safe drill press use
11. Demonstrate safe jointer use
12. Demonstrate safe router use
13. Demonstrate safe spindle sander use
14. Demonstrate safe table saw use
15. Demonstrate safe thickness planer use
16. Engrave hand tools
17. Flatten chisel backs
18. Flatten long cabinet scraper sides
19. Flatten plane blade back
20. Flatten plane bottom
21. Grind chisel bevels
22. Grind plane blade bevel
23. Hone chisel bevels
24. Hone plane blade bevel
25. Identify bandsaw parts
26. Identify belt/disc sander parts
27. Identify block plane parts
28. Identify drill press parts
29. Identify hand tools
30. Identify jointer parts
31. Identify router parts
32. Identify safe bandsaw use techniques
33. Identify safe belt/disc sander use techniques
34. Identify safe drill press use techniques
35. Identify safe jointer use techniques
36. Identify safe router use techniques
37. Identify safe spindle sander use techniques
38. Identify safe table saw use techniques
39. Identify safe thickness planer use techniques
40. Identify spindle sander parts
41. Identify table saw parts
42. Identify thickness planer parts
43. Make bench hook
44. Make burnisher handle

45. Make one curved scraper
46. Make push sticks
47. Perform band saw resaw cut
48. Perform bandsaw freehand cuts
49. Perform flush trim rout with template
50. Perform table saw cross cut
51. Perform table saw rip cut
52. Plane wooden block
53. Polish burnisher steel
54. Polish cabinet scraper sides
55. Sand burnisher steel
56. Sharpen one curved scraper
57. Use metric system
58. Work on violin fingerboard blank OR plane guitar scarf joint

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted