

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. CRPT

COURSE NUMBER: 1101

NUMBER OF CREDITS: 2

Lecture: 1 Lab: 1 OJT 0

Course Title:
Tool Safety, Construction Terms and Materials

Catalog Description:
Tool Safety, Construction Terms and Materials helps the student to learn the different types of materials and terms used on all construction sites and how to maintain and use all hand and power tools.

Prerequisites or Necessary Entry Skills/Knowledge:
None

FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

Goal 1: Communication: ____ by meeting the following competencies:

Goal 2: Critical Thinking: ____ by meeting the following competencies:

Goal 3: Natural Sciences: ____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ____ by meeting the following competencies:

Goal 7: Human Diversity: ____ by meeting the following competencies:

Goal 8: Global Perspective: ____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ____ by meeting the following competencies:

Goal 10: People and the Environment: ____ by meeting the following competencies

Topics to be Covered (General)
Tool and machine safety
Job site safety
Shop safety
Tool and machine maintenance
Construction terms
Materials used in construction

Student Learning Outcomes
Describe the hardwood and softwood classifications.
Recognize and name common defects in lumber.
Define lumber grading terms.

Identify common lumber sizes.
Explain plywood, hardboard, and particleboard grades and uses
Identify nail types and sizes.
Recognize types of engineered lumber and list their uses and advantages.
Identify a variety of metal framing connectors and indicate where each is used
Identify hand tools used in the carpentry trade and explain their use
Identify power tools and machines used in the carpentry trade and explain their use.
Explain typical designs and construction of manufactured scaffold.
List ladder types and apply ladder and scaffolding safety rules.
Demonstrate safe use of hand tools, power tools, and machines.
Demonstrate proper care and maintenance of hand tools, power tools and machines.
Describe appropriate clothing suitable for carpenters to wear in safety
List personal safety equipment recommended for carpenters to use
Describe proper methods of lifting and carrying that avoids personal injury.
Explain housekeeping measures designed to promote safe working conditions.

Is this course part of a transfer pathway: Yes ☐ No ☒

***If yes, please list the competencies below**

Revised Date: 1/2022