

CARP 142 “Safe and Savvy Tool Use” course outline

- I. Safety Issues
 - A. General shop safety
 - 1. personal safety gear
 - a. safety glasses
 - b. boots and clothing
 - c. ear protection
 - d. dust protection
 - e. hand protection
 - B. Electrical
 - 1. closest outlet
 - 2. cords in good repair
 - 3. every tool with its own extension cord
 - 4. GFCO outlets
 - C. Work areas
 - 1. personal space around work benches
 - 2. keeping areas clean
 - 3. tools, supplies stored/organized
 - D. Class safety plan devised and recorded for school year
 - E. First Aid station prepared and maintained
- II. Hand tools
 - A. carpentry program required tool list
 - B. sharpening
 - C. hand held power tools, including but not limited to:
 - 1. skil saw(s)
 - 2. reciprocating saw (sawzall)
 - 3. drills and screw guns
 - 4. sanders
 - 5. routers
 - 6. roto hammer
 - 7. cordless tool versions
 - D. Shop power tools, including, but not limited to:
 - 1. table saws
 - 2. dadoes
 - 3. power miter saws
 - 4. band saws
 - 5. planers
 - 6. panel saw
 - 7. stationary sanders

- III. Job site safety
 - A. cords, tool, job trailer organization
 - B. walkways for people
 - C. pathways for cords and air hoses
 - D. Scaffolds
 - E. Ladders
 - F. Stocked and ready First Aid Kit
 - G. Emergency procedures

- IV. Air powered tools
 - A. staplers
 - B. finish nailers
 - C. framing guns
 - D. palm nailers

- V. Laboratory projects
 - A. tool box
 - B. saw horses
 - C. personal ideas
 - D. projects around campus/local community
 - E. prepare for raffle house construction.

CARP 142 may not follow the exact above sequence of topics. There is a great deal of overlap and blending with all carpentry curriculum. Student success is measured with periodic written quizzes and tests, as well as daily observation and direct verbal feedback on the part of the instructor.

CARP 142 “Safe and Savvy Tool Use” course outcomes

(1) Accurately measure and figure, using tapes and other measuring tools of the carpentry trade.

Assessed through:

- daily instructor observation and individual feedback
- graded projects assigned during lab portion of course
- regular additions to students’ competency profiles
- periodic written tests

General Education abilities addressed:

- Critical Thinking and Problem Solving
- Mathematical and Symbolic Reasoning

(2) Accurately and safely use hand and power tools to build assigned projects in the shop/laboratory.

Assessed through:

- daily instructor observation and individual feed back
- critical consideration of students’ work
- regular additions to students’ competency profiles

General Education Ability addressed:

- Critical Thinking and Problem Solving

(3) Demonstrate a basic understanding of how to follow a shop sketch/plan in building assigned projects.

Assessed through:

- classroom quizzes
- daily instructor observation and feed back
- graded consideration of assigned projects and activities

General Education abilities addressed:

- informational literacy
- mathematical and symbolic reasoning
- critical thinking and problem solving

Students’ progress toward successful achievement of carpentry program outcomes is monitored daily and recorded periodically throughout the school year. A completed competency profile, including and expanding upon carpentry program outcomes, will be provided for each student in addition to an NIC Certificate of Completion.