**COURSE CON1010: CONSTRUCTION TOOLS & MATERIALS**

**Level:** Introductory

**Prerequisite:** None

**Description:** Students develop basic hand tool and production skills to transform common building materials safely into useful products.

**Parameters:** Access to a materials work centre, complete with basic hand tools.

**Outcomes:** The student will:

**1. create a health and safety plan with special emphasis on conditions and factors related to the specific pathway or series of courses: OHS; personal safety; basic shop safety.**

Complete OHS worksheets, safety exams (shop map, personal, basic)

**2. research common processes and methods of hazard identification, assessment and control specific to the pathway or series of courses: jobsite safety; PPE; shop safety evaluation.**

Complete shop hazard assessment, PPE worksheet

**3. identify and describe the safe use of basic hand tools: Tools which measure, mark, hold, cut, form, fasten and finish.**

Complete test piece using basic hand tools

**4. identify and compare the properties of common materials used in construction activities: Material properties, handling, storage and recycling.**

Complete materials worksheet

**5. apply construction processes and skills to produce a product: plan, construct, assemble, finish and evaluate a project.**

Plan, build and finish project

**6. demonstrate basic competencies: Oral and written communication; demonstrate responsibility on a variety of levels.**

Create plans, bill of materials, complete evaluation, work cooperatively in shop

**7. make personal connections to the cluster content and processes to inform possible pathway choices: Select an occupation which utilizes the practiced skills.**

Complete occupational connections worksheet