

### Mission Statement

### Measures

#### Carpentry Learning outcomes- NOCTI

##### Learning Outcome

##### **Learning Outcome: Safety**

Demonstrate safe material handling practices  
Display comprehension of workplace/job site safety procedures (OSHA)  
Exhibit knowledge of SDS and personal protective equipment (PPE)  
Display understanding of hand tool safety issues  
Display understanding of power tool safety issues

▼ **Measure:** NOCTI Carpentry Assessment  
*Program level; Direct - Exam*

Details/Description:

Acceptable Target:

The mean score will be equal or above the national average. 50% or more of the students will score above the national average.

Ideal Target:

The mean score will be 10% or more above the national average. 60% or more of the students will score above the national average.

Implementation Plan (timeline):

Spring 2018

Key/Responsible

Zimmerman/Rupp

Personnel:

**Learning Outcome: Tools and Accessories**

Use and maintain hand tools  
Use and maintain power tools  
Use and maintain measuring, layout, and marking tools

▼ **Measure:** NOCTI Carpentry Assessment  
*Program level; Direct - Exam*

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Implementation Plan (timeline): Spring 18

Key/Responsible Personnel: Zimmerman/Rupp

**Learning Outcome: Blueprint Reading and Estimation Skills**

Demonstrate awareness of general building codes  
Display comprehension of dimensions and scales  
Read and understand various views and elevations  
Display understanding of symbols, lines, and details  
Extrapolate information from a set of plans  
Estimate materials quantities  
Demonstrate awareness of green building practices

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Implementation Plan  
(timeline):

Spring 18

Key/Responsible

Zimmerman/Rupp

Personnel:

### Learning Outcome: Foundations, Forms, and Concrete

Lay out foundation

Construct and align footing and foundation forms

Install, brace, align, and remove formwork

Understand concrete characteristics

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*Program level; Direct - Exam*

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Implementation Plan  
(timeline):

Spring 18

Key/Responsible

Zimmerman/Rupp

Personnel:

**Learning Outcome: Rough Framing**

Demonstrate understanding of floor systems  
Demonstrate understanding of wall systems  
Demonstrate understanding of roof systems  
Calculate, lay out, and install stairs

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*Program level; Direct - Exam*

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Implementation Plan (timeline): Spring 18

Key/Responsible Personnel: Zimmerman/Rupp

**Learning Outcome: Exterior Finish**

Identify and install cornice and trim  
Calculate and install roofing  
Identify, prepare, and install windows and doors  
Calculate, lay out, and install siding

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*Program level; Direct - Exam*

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Implementation Plan (timeline):	Spring 18
Key/Responsible Personnel:	Zimmerman/Rupp

### Learning Outcome: Interior Finish

Install insulation  
 Install and finish interior walls and ceilings  
 Install interior doors  
 Install standing and running trim  
 Install cabinets and associated hardware

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*Program level; Direct - Exam*

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Implementation Plan (timeline):	Spring 18
Key/Responsible Personnel:	Zimmerman/Rupp

### Learning Outcome: Carpentry - Related Mathematics

Perform basic mathematical operations:  
whole numbers, fractions, and decimals  
Perform linear, square, and cubic computations  
Perform algebraic and geometric functions

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*Program level; Direct - Exam*

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Implementation Plan  
(timeline):

Spring 18

Key/Responsible

Zimmerman/Rupp

Personnel:

### Carpentry Outcome Set

Learning Outcome

#### Learning Outcome: Workplace safety

*No measures specified*

#### Learning Outcome: Using and maintaining hand tools

*No measures specified*

**Learning Outcome: Using and maintaining power tools**

*No measures specified*

**Learning Outcome: Read and interpret plans and elevations from blueprints**

*No measures specified*

**Learning Outcome: Understand concrete, reinforcing materials and forms**

*No measures specified*

**Learning Outcome: Understand floor systems**

*No measures specified*

**Learning Outcome: Understand roof framing**

*No measures specified*

**Learning Outcome: Understand exterior finishes**

*No measures specified*

**Learning Outcome: Understand drywall installation**

*No measures specified*

**Learning Outcome: Understand stair systems**

*No measures specified*

**Learning Outcome: Understand the installation of windows and doors**

*No measures specified*

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