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 Personnel:
- Zimmerman/Rupp
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
Details/Description:
Acceptable Target: Equal to or above the national average. 50% or more of the students will score above the national average.
Ideal Target: 10% or more above the national average. 60% or more of the students will score above the national average.
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

Measure: NOCTI Carpentry Assessment
Program level; Direct - Exam
### Details/Description:

<table>
<thead>
<tr>
<th>Learning Outcome: Foundations, Forms, and Concrete</th>
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</thead>
<tbody>
<tr>
<td><strong>Lay out foundation</strong></td>
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<tr>
<td><strong>Construct and align footing and foundation forms</strong></td>
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<tr>
<td><strong>Install, brace, align, and remove formwork</strong></td>
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<tr>
<td><strong>Understand concrete characteristics</strong></td>
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#### Measure: NOCTI Carpentry Assessment

*Program level; Direct - Exam*

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<td>Implementation Plan (timeline):</td>
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<td>Zimmerman/Rupp</td>
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</tbody>
</table>
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

Measure: NOCTI Carpentry Assessment
Program level; Direct - Exam

Details/Description:
Acceptable Target: Equal to or above the national average. 50% or more of the students will score above the national average.
Ideal Target: 10% or more above the national average. 60% or more of the students will score above the national average.

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

Measure: NOCTI Carpentry Assessment
Program level; Direct - Exam

Details/Description:
### 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

#### Measure: NOCTI Carpentry Assessment

*Program level; Direct - Exam*

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</table>
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

Measure: NOCTI Carpentry Assessment
Program level; Direct - Exam

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Ideal Target: 10% or more above the national average. 60% or more of the students will score above the national average.
Implementation Plan (timeline): Spring 18
Key/Responsible Personnel: Zimmerman/Rupp

Carpentry Outcome Set
Learning Outcome

Learning Outcome: Workplace safety
No measures specified

Learning Outcome: Using and maintaining hand tools
No measures specified
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Using and maintaining power tools</td>
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<tr>
<td>Read and interpret plans and elevations from blueprints</td>
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<tr>
<td>Understand concrete, reinforcing materials and forms</td>
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<tr>
<td>Understand floor systems</td>
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<td>Understand roof framing</td>
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<tr>
<td>Learning Outcome: Understand exterior finishes</td>
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<tr>
<th>Learning Outcome: Understand drywall installation</th>
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<td><strong>No measures specified</strong></td>
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<table>
<thead>
<tr>
<th>Learning Outcome: Understand stair systems</th>
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<tr>
<th>Learning Outcome: Understand the installation of windows and doors</th>
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