2017-2018 Assessment Cycle

Assessment Plan

Mission Statement

Measures

Mechanical Drafting, Design, & Eng Technology Outcome Set

Learning Outcome

Learning Outcome: Drafting Scale
Select the appropriate scale for the given drawing problem according to ANSI Standards

▶ Measure: SkillsUSA Technical Drafting Assessment
Program level; Direct - Exam

Details/Description:
The mean score will be equal to the national average. 50% of the students will score above the national average.

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

Ideal Target:
The mean score will be equal to the national average. 50% of the students will score above the national average.

Implementation Plan
(timeline):
Spring 18

Key/Responsible Personnel:
Kohls
Learning Outcome: Sketching knowledge

Apply sketching knowledge and techniques to solve the problem identified by the technical committee according to ANSI standards

**Measure:** SkillsUSA Technical Drafting Assessment  
*Program level; Direct - Exam*

<table>
<thead>
<tr>
<th>Details/Description</th>
<th>Acceptable Target</th>
<th>Ideal Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>The mean score will be equal to the national average. 50% of the students will score above the national average.</td>
<td>The mean score will be 10% or more above the national average. 60% or more of the students will score above the national average.</td>
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</table>

| Implementation Plan (timeline) | Spring 18 |
| Key/Responsible Personnel | Kohls |

Learning Outcome: Orthographic Projections

Apply knowledge of orthographic projections to solve technical drafting problems according to ANSI standards

**Measure:** SkillsUSA Technical Drafting Assessment  
*Program level; Direct - Exam*

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**Learning Outcome: Auxilliary views**
Utilize knowledge of auxiliary views to solve technical drafting problems according to ANSI standards

**Measure:** SkillsUSA Technical Drafting Assessment  
*Program level; Direct - Exam*

**Details/Description:**
- **Acceptable Target:** The mean score will be equal to the national average. 50% 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 18  
**Key/Responsible Personnel:** Kohls

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**Learning Outcome: Sectioning**
Apply knowledge of sectioning to solve technical drafting problems according to ANSI standards

**Measure:** SkillsUSA Technical Drafting Assessment  
*Program level; Direct - Exam*
Learning Outcome: Dimensioning and Tolerancing
Implement techniques in dimensioning and tolerancing including geometric dimensioning and tolerances to solve technical drafting problems according to ANSI standards

Measure: SkillsUSA Technical Drafting Assessment
Program level; Direct - Exam

Details/Description:
Acceptable Target: The mean score will be equal to the national average. 50% 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 18
Key/Responsible Personnel: Kohls
Learning Outcome: Detail and Assembly
Apply knowledge of detail and assembly drawings

Measure: SkillsUSA Technical Drafting Assessment
Program level; Direct - Exam

Details/Description:
Acceptable Target: The mean score will be equal to the national average. 50% of the students will score above the national average.

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

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

Learning Outcome: Fasteners and Hardware
Demonstrate knowledge of fasteners and hardware

Measure: SkillsUSA Technical Drafting Assessment
Program level; Direct - Exam

Details/Description:
Acceptable Target: The mean score will be equal to the national average. 50% 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.
Learning Outcome: Presentation/Pictorial drawings
Demonstrate knowledge of presentation/pictorial drawings

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Measure: SkillsUSA Technical Drafting Assessment
Program level; Direct - Exam

Details/Description:
Acceptable Target: National Average
Ideal Target: > national average
Implementation Plan (timeline):
Spring 18
Key/Responsible Personnel: Kohls

Learning Outcome: Construction materials
Demonstrate knowledge of construction materials and methods

Measure: SkillsUSA Technical Drafting Assessment
Program level; Direct - Exam

Details/Description:
Acceptable Target: The mean score will be equal to the national
Learning Outcome: CAD software
Utilize CAD software to create a computer-generated 3-D model and drawing

Measure: SkillsUSA Technical Drafting Assessment
Program level; Direct - Exam

Details/Description:
Acceptable Target: The mean score will be equal to the national average. 50% 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 18
Key/Responsible Personnel: Kohls

Learning Outcome: Mathematical formulas
Apply reference materials and relevant mathematical formulas to assigned problems
**Measure:** SkillsUSA Technical Drafting Assessment  
*Program level; Direct - Exam*

**Details/Description:**

**Acceptable Target:** The mean score will be equal to the national average. 50% 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 18

**Key/Responsible Personnel:** Kohls