# Program Review Executive Summary

**Institution Name:** Oklahoma Panhandle State University  
**Program Name and State Regents Code:** Wind Energy/Maintenance Technology Certificate 064  
**List Any Options:** N/A  
**Date of Review:** 10/30/2020  
**Recommended Date of Next Review:** 2025

## Centrality to Institutional Mission:
The program of Wind Energy and Maintenance Technology follows the Oklahoma Panhandle State University mission of “Rooted in “Progress through Knowledge,” OPSU is committed to promoting excellence in the preparation of students for success in a global community.” This is done through its goals, which align to the primary points of “progress through knowledge… in a global community” with a focus on oral and written communication, analytical and quantitative reasoning, and social responsibility and cultural awareness.

## Program Objectives and Goals:

**Goal 1: Oral and Written Communication:** Communicate effectively using written, oral, and symbolic languages  
**Student Learning Objectives:**  
1) Students will be able to create basic technical drafting drawings (CAD).

**Goal 2: Analytical and Quantitative Reasoning:** Read and think critically by analyzing, assimilating, and applying information  
**Student Learning Objectives:**  
1) Students will apply the fundamental skills in the use of hand and machine tools.

**Goal 3: Social Responsibility and Cultural Awareness:** Be an aware and active participant in the global, dynamic community  
**Student Learning Objectives:**  
1) Students will demonstrate an understanding of safe welding environments and hazard avoidance.

## Quality Indicators Such As:
Student benchmarks were met in all student-learning objectives at the time of the Program Review. These benchmarks and objectives have been hampered by COVID-19, but have seen measurable improvement. Student evaluations have not shown a need for change, as they were positive. Learning environments for the student are becoming more effective. Faculty in the department participated in a campus wide evaluation of the learning management system; the digital learning space of D2L was reevaluated Summer 2018 and found to still be a great fit for our students and their learning. COVID-19 also spurred greater support in use of learning spaces for digital learning experiences. In Fall 2019, classroom furniture was updated. The capacity of the program to meet needs and expectations of constituencies is met through the high amount of community based projects, working out articulation agreements with High Plains Technology Center, and alignment of the certificate into the associate and bachelor degrees in technology and industrial technology.

## Productivity for Most Recent 5 Years:
- **Number of Degrees:** 2 average over past 4 years  
- **Number of Majors:** 1.5 average over past 4 years
### Other Quantitative Measures

**Such As:**

- Number of Courses for Major: 11
- Student Credit Hours in Major: 30
- Direct Instructional Costs: covered by other programs
- Supporting Credit Hour Production: 0

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<thead>
<tr>
<th>Faculty Member</th>
<th>Credential</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Hue R. Helms</td>
<td>BIND</td>
<td>Oklahoma Panhandle State University</td>
</tr>
<tr>
<td>Jon Olsen</td>
<td>BIND</td>
<td>Oklahoma Panhandle State University</td>
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| Number of FTE faculty in specialized courses: 2 |
| Students known employed: 1 |

### Duplication and Demand

The Certificate in Wind Energy/Maintenance Technology is a program in demand by the community with The National Center for Construction Education and Research welding certification. The certificate being offered at a four-year institution is unique. It allows students who receive it here to apply their credits towards an associate and bachelor degree as well.

### Effective Use of Resources

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<tbody>
<tr>
<td>Cost to operate program per student credit hour</td>
<td>$0.00 (none enrolled)</td>
<td>$276.30</td>
<td>$265.79</td>
<td>$0.00 (none enrolled)</td>
<td>$314.79</td>
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<tr>
<td>Faculty/ student ratio</td>
<td>N/A</td>
<td>1/1.00</td>
<td>1/1.25</td>
<td>N/A</td>
<td>1/0.25</td>
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### Strengths and Weaknesses

Strengths of the program include an alignment of welding and electricity courses with The National Center for Construction Education and Research, a small student teacher ratio, access to working labs outside of classes, and fulfilling the need for educated and skilled degreed workers.

Weaknesses include older equipment, and space for metal working.

### Recommendations

Maintain at current level with a focus to do certificate audits to award more students who earn the certificate. Also, a change to the math option in the catalog would benefit students through either offering all three math pathways or just one.