Comprehensive Program Review Report (Narrative)
College of the Sequoias
Program Review - Environment Control Technology

Prepared by: Alec Hurtado

What are the strengths of your area?
1. High enrollment with waiting lists over the last 10 years
2. Strong industry demand with nearly 100% placement of completers
3. Above average certificate completion
4. 85% of the students become EPA Certified
5. Efficiency of the ECT program is at 446 which is a strong # for a CTE program.
6. Strong industry advisory with strong connections for placement of students.

What improvements are needed?
1. The ECT Program needs state of the art equipment to meet new tech demands for new high tech heating equipment.
2. Upgrade computers and software for diagnostic training on new HVAC systems.

Describe any external opportunities or challenges:
1. One challenge is keeping the technology up-to-date to prepare prepare students for NATE certification
2. One challenge is getting students prepared for HVAC for Excellence Electrical certification
3. One challenge is getting students prepared for HVAC for Excellence Air Conditioning certification

Overall Outcome Achievement:
1. The program overall, looking at the SLO and PLO'S are updated annually so to keep the curriculum current to meet industry needs as indicated by advisory committee members.
2. 82% of ECT students gained employment in the HVAC industry 2013-2014, 100% 2012-13.

Changes based on outcome achievement: These changes will continue to bring local HVAC contractors to COS to employ ECT students and improved working relations with industry by meeting their needs.

Outcome cycle evaluation: The ECT program is setup on a one year cycle assessment. This seems to be a very effect way to assess the one year ECT program.

Action: High efficiency heating equipment
Improve students' diagnostic (troubleshooting, analysis) skills as measured by skill tests, specifically on high efficiency heating equipment.

Implementation Timeline: 2015 - 2016
Start Date: 08/27/2014
Completion Date: 10/14/2015
Status: New Action

Identify related course/program outcomes:
Upon completion of this course the students will be able to diagnose a simugas computer simulator trainer with a score of 70% or better on a skilled exam.

Person(s) Responsible (Name and Position):
Alec Hurtado

Rationale (With supporting data): The industry is constantly evolving requiring students to gain greater understanding of the fundamentals using the most recent technology updates being used by the industry.

Priority: High
Safety Issue: No
External Mandate: No

Add Resource Request for Action

<table>
<thead>
<tr>
<th>Resource Description</th>
<th>Why is this resource required for this action?</th>
<th>Notes (optional)</th>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grand Air High efficiency condensing furnace 96% PLUS AFUE,( Model # N9MSEO401712A, END)</td>
<td>To have students better prepare to meet industry needs</td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
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Resource Type: Instructional equipment
Action: Improve Student Communication and Technology-related Skills

Improve the ability for students to use state-of-the-art technology and develop job-required communication and technology skills required on the job.

**Implementation Timeline:** 2014 - 2015

**Start Date:** 09/01/2016

**Completion Date:** 10/01/2016

**Status:** New Action

Identify related course/program outcomes:
- To be decided

Person(s) Responsible (Name and Position):
- Alec Hurtado

Rationale (With supporting data):
- TBD

Priority: High

Safety Issue: No

External Mandate: No