Comprehensive Program Review Report (Narrative)
College of the Sequoias
Program Review - Electrician Training

What are the strengths of your area?:
1. Demand for individuals trained in Electrical Training is increasing in our area.
2. The program had its first cycle of students that completed all four years of the certificate program and completed a certificate.
3. Sequence offered at Hanford Center and Tulare and there are typically wait lists for the courses. The demand is high and the employment opportunities mirror the recovery of the economy.
4. College of Sequoias is a certified training program through the CA Department of Industrial Relations
5. Use industry based NCCER Curriculum--travels nationally. The NCCER Curriculum offers consistent curriculum between campuses and multiple adjunct instructors. Relationship with ABC in Bakersfield that allows input of the curriculum into the NCCER system.

What improvements are needed?:
1) More adjunct instructors are needed to meet the demand.
2) A NCCER Master Trainer and the support staff to input the NCCER information into the National Registry.
3) Permanent laboratory facility and storage space for the Visalia/Tulare Electrical program. Many of the courses require projects to be built and remain stationary through the semester.
4) Tie in between the Electrical and Construction program to allow students to gain experiences of value in each pathway.
5) Study Guides for the CA Journeyman Exams

Describe any external opportunities or challenges:
1) Direct involvement with employers; the student needs the ET class in order to stay employed in the field; ET is a necessity for people to stay employed so the classes are always in demand.
2) Reliance on ABC to enter NCCER curriculum
3) Ability to recruit adjunct faculty that have the strong trade background and credentials necessary to teach in an electrical training program but also have the required AA/AS degree mandated by COS Academic Senate.
4) Opportunity to have students feed into the local electrical apprenticeship program; Challenge to create relationships with local labor unions.

Overall Outcome Achievement: Student Success numbers are good with most classes at 80% or better and many classes above 90%.

Changes based on outcome: Faculty need to feel comfortable in supplementing the NCCER curriculum to engage students in concepts beyond what is required in NCCER. The curriculum is a good guide, but the instructor must assess the level of the students and determine if they are achieving the SLOs based solely on the NCCER curriculum.

Outcome cycle evaluation: The courses will assess each SLO every semester in which the course is taught.

Action: Ensuring sequence is being offered as needed by students
Increase the number of adjunct faculty available to teach the ET course through the NCCER Curriculum; Recruit 2 new adjunct faculty and get them in the system to ensure adequate completion.

Implementation Timeline:
- Start Date: 11/03/2014
- Completion Date: 05/31/2015
- Status: New Action

Identify related SLO: Given supervision throughout the electrical program, students will be able to apply for the California state exam and pass the exam with a score of 75% or better.

SLO: Given a blueprint, students will be able to correctly calculate a lighting circuit load as to correctly identify classifications of specified lighting fixtures with a 70% accuracy rate.

Person(s) Responsible (Name and Position):
Louann Waldner and Shane Baesmann

Rationale (With supporting data):
The program cannot effectively progress (the correct courses cannot be offered in a timely manner) without faculty

Priority: High
Action: Upgrade Faculty Skills

Training—CEDIA (Custrom Electronic Design Integraed Association)

Start Date: 09/30/2014
Completion Date: 10/31/2014
Status: New Action

Identify related SLO: Given block diagrams, students will be able to demonstrate power supplies, armature, field and control features according to characteristics of various types of motors at a 70% accuracy rate.

SLO: Given several wiring schematics, students will be able to select correct conductor size for specified load, calculate correct let-through current values, calculate correct conduit fill and bending radii in specified boxes and cabinets, and determine maximum load allowed on specific wiring devices. Students will meet or exceed National Electrician Code standards.

Person(s) Responsible (Name and Position):
Shane Baesmann

Rationale (With supporting data):
Technology is constantly changing and upgrading skills of adjuncts is necessary to maintain the current standards and ensure SLOs are met.

Priority: High
Safety Issue: No
External Mandate: No

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<tr>
<th>Resource Description</th>
<th>Why this resource required for this action?</th>
<th>Notes (optional)</th>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conference attendance</td>
<td>Upgrade faculty skills</td>
<td></td>
<td>Yes</td>
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