Program Review 2013-14 - Adv Transportation Tech: Electric Vehicles

PR 2A - Enrollment Data:
• Advanced Transportation-Electric Vehicles shares discipline codes with Automotive such that data is intermingled
• Annual enrollment is down from 965 in 2011/2012 to 821 total students in 2012/2013. This decline can be attributed to the discontinuance and student flight.
• Reduction in sections offered from 28 to 24 is reflective of reduction in offerings of ATT-EV classes
• Program became separate department July 2013 so data will be properly reflective in future

PR 2B - Achievement Data:
• Retention rate is 91% over last 3 years indicating consistent retention of existing students
• Students are involved and engaged in program due to quality of instruction and interest
• Success rate has been steadily increasing from 72-81% over same period indicating interest in completing the entire program and its relevance to industry’s needs
• This data does not reflect individual need for specialty training offered in program. Many students return to obtain Hybrid and other specialty training with no desire to complete entire program.

PR 2C - HR (Staffing) Data:
• Staffing of 5 full time instructors in both programs with two in Alternative fuels-EV along with 3 classified staff members to accommodate schedule has been reduced to 2 full time instructors and one staff member due to discontinuance. ATT staff is currently at ½ instructor and ½ staff reducing offerings from 12 FTES courses to 2 per semester currently. NO part time instructors currently exist for ATT courses as they have found other employment.

PR 3A - SLO - summary of collected program data:
• SLO data collection just established beginning fall 2013. Students evaluated performed satisfactorily on rubric evaluation. 66% success rate on SLO’s evaluated with most able to perform 100% on safety related items with out supervision.

PR 3B - SLO - uses in program improvement:
• SLO data collection just established beginning fall 2013. Program just established as separate department in July 2013 making data more relevant to program improvement. Entire program is being re-evaluated and re-designed, due to discontinuance, using SLO’s as the guiding element.

PR 3C - SLO - action/ change based on results:
• Data is based upon only one class and with the discontinuance, additional offerings have not occurred so implementation of changes is difficult. Industry partners being developed to better serve the needs of industry.

PR 4A - Goals - development and change:
• New curriculum, including heavy duty Hybrids, being introduced as products enter market. Dedicated instructor to be sought and evaluation of curriculum coursework being conducted. Expansion of solar charging and plug in hybrid/fuel cell technology planned.
• Our program is directly influenced by the needs of our advisory members and industrial partners. We have developed programs based upon the new technologies being introduced to industry by being involved in the introduction of these technologies through various partners who have sought our assistance training their employees. This expertise is relayed to our FTES students using the same Powerpoints and training modules developed for industry. New modules developed this year in several areas are being used by these students.

PR 4B - Goals - results:
• New Hybrid FTES class developed and submitted to curriculum committee. Heavy duty modules being developed on Hybrid trucks.
• Grant obtained to develop curriculum including solar charging training which will be incorporated into FTES curriculum.

PR 4C - Goals - future plans:
• Newer, more modern facility requested to better facilitate SLO accomplishments in instruction.
• Recently developed Industrial training modules incorporated into curriculum to better serve the students with state of the art training requested of our advisory members and industry partners. Our students are tasked with proofing the curriculum developed in beta testing, resulting in a better understanding of the material presented.
• Obtain state of the art facility that is properly set up to conduct classes in a safe environment showcasing the safety equipment, ventilation and layout needed.

• Develop facility to represent industrial locations that students will encounter with similar tools and equipment so they are prepared for success.

• Obtain additional instructors to replace those who have sought alternative employment during reduction in offerings due to discontinuance.

• Obtain additional instructional assistant/tool room staff to accommodate instruction and maintain facility with the quality expected of industry.

• Promote our existence and offerings to both the student and industrial clients to increase our marketing and exposure.

PR 5 - Dept - how does it fit into big picture?:

• Electric Vehicles, including Hybrids and Fuel Cells will be the future. We already see a major increase in their development in the light/medium duty market with Heavy-duty making a big emergence as an answer to diesel pollution in the ports and industrial areas. These technologies utilize computers and high voltage EV systems that must be carefully maintained or serious injury can result. The Department addresses this need and is a huge contributor to our industrial partners as these technologies evolve and develop. Our students must be trained in these state of the art technologies to be competitive in today’s job market.

Projects/ Strategies and Resources Needed