Assessment Plan

Yuba Community College District

YC - Automotive Technology Program Recommendations

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Program Description: The program offers a complete automotive skills training curriculum, including auto repair, auto body, paint, and refinishing. The Automotive Technology program trains and equips students pursuing a career within the automotive industry and supports current industry professionals desiring to upgrade their job skills.

Year of Review: 2010-2011

Type of Review: Self-Study (4-year review)

Executive Summary: Review of the program reveals some of the goals outlined in the 2007 program review and annual updates have been met. The in-ground hoists have been repaired, computers for a new lab were ordered 7 months ago but have not been delivered. TIG welder has been purchased. Facility has not been painted. Instructional aide has not been hired. Vacuum systems and mid-rise lifts have not been purchased. Classes remain full but the program does not have sufficient resources for consumables, updated software, purchase of new hand tools and maintenance of existing equipment. Our materials Jobber has been purchased by FinishMaster. Due to purchase the program has had to change it's waterborne paint line to RM products by BASF. The Onyx line was installed at the beginning of the Fall semester 2011. The new Paint Line has warranty requirements that must be followed. An instructional aide has not been hired, students are having to wait for tools or are trying to find them themselves leading to lost tools, lack of proper maintenance and diminished tool life.

Future Goals and Program Direction: The goals of the automotive program are to provide state-of-the-art training to students in order that they might obtain viable employment, which, in turn, provides qualified technicians to the local businesses and community. Additionally, the automotive program provides a valuable service to technicians by providing update training and certification in order that they might stay current with technology and maintain necessary job skills.

ASE certification is essential for the Automotive Technology program to move forward and attract future corporate donations. In order for the program to maintain compliance and retain ASE certification, a second Instructor is required in both Auto Body and Automotive Technology who are both ASE certified. Instructional aides will be needed to handle the increased tool room activity, insure proper tool maintenance and District property security.

A Future Goal of the Automotive Technology/Auto Body program is to move to a new facility off the Marysville campus and into a Career Tech Ed facility with Welding Technology.

The Auto Body program needs to become compliant with EPA Rule 6H. This will require adding Fresh Air Breathing systems to the spray booths along with Fresh Air Hoods. New Spray guns will have to be purchased to comply with BASF warranty requirements. Advisory Committee members and Industry Professional are trending toward ASE Certification over I-CAR . Another goal is to move away from large projects (complete vehicle paint jobs) to small piece instruction such as individual fender repair. Each student will be able to complete a project quickly and create more room in the shop for instruction. This will require resources to purchase parts and materials.

The automotive program has excellent curriculum and program opportunities now and in the future. The opportunities include implementing curriculum changes that provide students with comprehensive training on new technology in order to equip students with the necessary skills to diagnose and repair late-model vehicles and in order that they may obtain employment within the automotive industry. It continues to be a challenge to address rapidly changing needs within the automotive industry. Future recommendations for addressing student and industry needs are as follows:

 Offer more courses at times convenient to working students;

 Develop and implement short-term update courses on new technology geared toward professional technicians. For example: diagnosis and repair of hybrid and alternative fuel vehicles;

 Offer training in full or in part at satellite centers;

 Develop a diesel training and smog technician programs;

 Improve marketing and recruitment at high schools, jr high schools and local industry. Implement Counselor participation in recruitment visits to present full educational opportunities to students;

 Continue to develop and update brochures, department video, posters, radio, TV, billboards, trade magazine ads, and fliers;

 Maintain NATEF, ASE, NAFTC and CATT program certifications;

There is an urgent need for additional staffing which will need to be addressed within the very near future. Current full-time staffing is inadequate to maintain compliance with licensing agencies: NATEF, ASE, NAFTC and CATT. The growth and success of the program depends upon filling staffing shortfalls. Additional adjunct staff needs to be added to teach additional classes in both automotive technology and Auto Body.

 Additional classified employees need to be hired to assist in Auto Body, the toolroom and lab;

 Hire 2 additional adjunct instructors for Auto Body and Auto Technology.

The automotive facility and/or equipment dictate the growth opportunities for the program. In a rapidly changing industry, it is critical that the equipment and program offerings are maintained on state-of-the-art technology.

Present equipment such as the transmission dyno, modern downdraft paint booths, emission equipment, brake & alignment equipment are state-of-the-art and have provided an integral key to keeping the program viable. However, as new technology is developed and implemented, the equipment and facilities must keep pace in order to maintain a viable program.
 Obtain additional equipment and vehicles necessary to equip students to diagnose and repair vehicles using new diagnostic methods and new technology. Specifically hybrid and alternative fuel vehicles. The automotive department is seeking grants to obtain hybrid car in order to provide training on hybrid vehicles.
 Update the spray booth.
 The smog/emissions control program updates are driven by state changes and equipment/training must be updated regularly to maintain certification. New emission testing equipment must be purchased for the 2013 academic year.
 Update the four wheel alignment measurement system.
 Purchase and/or obtain donations of new automatic transmissions and manuals for student inspection, teardown and rebuild.
 Purchase and/or obtain donations of a new classroom set of late-model 4-cylinder engines for the engine diagnosis and rebuilding course.

The equipment is state-of-the-art. However the facilities are rapidly becoming outdated and are not adequate for full program offerings. The Auto Body program also requires additional facilities and equipment in order to fully address the needs of students. One of the challenges the program faces is the commitment to keeping the program viable and competitive with private industry in training automotive students. The automotive facilities have become impacted and are surrounded by offices, classrooms and heavy student foot traffic. This makes it difficult to control parking, tools, vehicles and traffic entering and leaving the labs and to address the needs of additional program expansion.
 Additional covered work areas are necessary for both the automotive program and the welding program. A covered awning would be temporary method of solving the issue for both programs.
 All of the automotive facilities are in need of interior paint, and more custodial help is necessary, especially for restrooms and the high use areas.
 Additional heating and lighting needs to be provided in the 611 lab.
 Enclose the southeast Auto Body shop bay; move the frame rack into bay.
 Begin a study to implement future relocation of Career Technical Areas to East of maintenance area. This would allow the Public Safety Program to move into the 1900 building which would be more centrally located and offer more classrooms to better meet their needs and would allow the automotive program to move to a less impacted area.

Recommendation: EPA Rule 6H

To comply with EPA Rule 6H the program must purchase fresh air breathing systems for the spray booths. These systems include air filtration, fresh air hoods and CO2 monitoring devices. All students who spray refinish materials must be certified in the proper use of spray equipment, respiratory health hazards and booth filtration. This includes proper respirator usage and fitment.

Year(s) Requested: 2011-2012
Request Date: 03/31/2012
Recommendation Priority: 3. High Priority
Supporting Evidence: EPA Rule 40 CFR PART 63 SUBPART 6H

Plans of Action

Plan of Action	Budgetary Impact	Timeline/Responsible Party	Active
send recommendation to perkins committee			Yes

Type:
Equipment/Technology

Recommendation: BASF Warranty Requirements

To comply with the contract signed with BASF for product usage and warranty, specific paint spray guns must be used.
Purchase 5 SATA 4000 RP and 5 SATA 4000 HC spray guns.

Year(s) Requested: 2011-2012
Request Date: 01/31/2012
Recommendation Priority: 3. High Priority
Supporting Evidence: BASF Warranty requirements

Plans of Action

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send recommendation to perkins committee			Yes
Type: Equipment/Technology			

Recommendation: EPA Rule 40 subpart 6H

To comply with EPA Rule 6H for reduction of HAP's(hazardou air pollutants)by at least 90% in the working environment. Purchase 20 3M self vacuuming Orbital sanders with 3/32 inch throw and 20 3M self vacuuming Orbital sanders with 3/16 inch throw.

Year(s) Requested: 2011-2012
Request Date: 01/31/2012
Recommendation Priority: 3. High Priority
Supporting Evidence: EPA Rule 6H

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send recommendation to perkins committee			Yes
Type: Equipment/Technology			

Recommendation: Honda Universal Attachment Brackets

Purchase Honda Universal Attachment Brakets for Frame Rack.

Year(s) Requested: 2011-2012
Request Date: 01/31/2012
Recommendation Priority: 3. High Priority
Supporting Evidence: To properly secure Honda cars to the frame rack these brackets are required.

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send recommendation to perkins committee			Yes
Type: Equipment/Technology			

Recommendation: Pro Spot PR2 Dent Repair Weld Station

Purchase Industry standard Dent Repair system.

Year(s) Requested: 2011-2012
Request Date: 01/31/2012
Recommendation Priority: 3. High Priority
Supporting Evidence: Modern Vehicle design, materials and construction require updated repair equipment.

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send recommendation to perkins committee			Yes
Type: Equipment/Technology			

Recommendation: develop short term update courses

provide more update courses

Year(s) Requested: 2012-2013
Request Date: 02/14/2012

Recommendation Priority: 3. High Priority

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send to perkins committee			Yes
Type: Curriculum/SLO			

Recommendation: develop diesel training and smog tech program

develop diesel training

Year(s) Requested: 2012-2013
Request Date: 02/14/2012
Recommendation Priority: 3. High Priority

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send to perkins committee			Yes
Type: Curriculum/SLO			

Recommendation: maintain NATEF,ASE,NAFTC and CATT certifications

maintain certifications

Year(s) Requested: 2012-2013
Request Date: 02/14/2012
Recommendation Priority: 3. High Priority

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send to perkins committee			Yes
Type: Curriculum/SLO			

Recommendation: Hire new facualty

To continue program certifications new facualty needs to be hired

Year(s) Requested: 2012-2013
Request Date: 02/14/2012
Recommendation Priority: 3. High Priority

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send to perkins committee			Yes
Type: Staffing - Faculty			

Recommendation: purchase new diagnostic equipment

purchase new state of the art equipment needed to keep pace with technology

Year(s) Requested: 2012-2013
Request Date: 02/14/2012
Recommendation Priority: 3. High Priority

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
Send to Perkins committee			Yes
Type: Equipment/Technology			

Recommendation: purchase new emission testing equipment

smog test equipment

Request Date: 02/14/2012
Recommendation Priority: 3. High Priority

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send to perkins committee			Yes
Type: Equipment/Technology			

Recommendation: update four wheel alignment system

purchase needed updates for alignment system

Year(s) Requested: 2012-2013
Request Date: 02/14/2012
Recommendation Priority: 3. High Priority

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send to perkins committee			Yes
Type: Equipment/Technology			

Recommendation: purchase new automatic transmissions and manuals

update automatic transmission program

Year(s) Requested: 2012-2013
Request Date: 02/14/2012
Recommendation Priority: 3. High Priority

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
send to perkins committee			Yes
Type: Equipment/Technology			

Recommendation: Obtain Late model 4 cylinder engines

Late model engines for diagnosis and rebuilding course

Year(s) Requested: 2012-2013
Request Date: 02/14/2012
Recommendation Priority: 3. High Priority

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**

Plans of Action

Plan of Action	Budgetary Impact	Timeline/Responsible Party	Active
send to perkins committee **Type:** Equipment/Technology			Yes