Attachment 1 –A
Revised July 2007

UNIVERSITY OF HAWAI`I COMMUNITY COLLEGES
ANNUAL INSTRUCTIONAL PROGRAM REVIEW
PROCEDURES, COMPONENTS, AND MEASURES

AUTO BODY REPAIR AND PAINTING PROGRAM

Introduction:
Program Mission Statement and brief description of the program including a listing of program level student learning outcomes.

The Auto Body Repair and Paint program's endeavor is to provide the maximum learning opportunity for students to build proficiency in auto body repair and paint technology, current industry collision and paint methodology, related field manual dexterity, and good sound work ethics; in alignment with UHCC's and HawCC mission to serve all segments of our Hawai'i Island community.

The Auto Body Repair and Painting program follows the College's "open door admission" policy for all students entering the program. The program is open to any high school graduate or anyone 18 years of age or older. Students are accepted into the program each fall semester on a first-come, first-served basis. Students are advised to complete the English and math placement testing, for placement into general education courses, to meet program graduation requirements.

The Auto Body Repair and Paint Program level student learning outcomes are as follows:

- Demonstrate entry-level skills for accuracy in structural repairs, non-structural repairs, painting theory, plastic repair and plastic refinishing.

- Demonstrate competence in safe & proper work attitude, identification of hand tools, power tools, the characteristics of various welding and cutting techniques applied on current types of metals used on OEM replacement parts, metal straightening techniques, rust repair solutions, and corrosion protection.

- Demonstrate competence in proper safety procedures & practices for automotive refinishing, operation of OSHA, HIOSH, Right-To-Know Act, EPA laws & regulations, refinish equipment, application of color, matching, problems, blending, plastic repair and refinishing.

- Demonstrate competence in collision damage appraisal, panel removal & alignment, door & quarter panel replacement, movable & stationary glass service, and electrical components.

- Demonstrate competence in structural damage analysis, straightening, & replacement panels, steering & suspension systems, heating & cooling systems

- Demonstrate computation, communication, critical thinking, research, and problem solving skills as well as an appreciation for the diversity of cultures, community, and the environment.

- Take pride in the quality of projects and performance; possess responsible work ethics and standards, and model attitudes of professionalism and appearance.

Part I. Quantitative Indicators for Program Review

Annual Report of Program Data for Auto Body Repair & Painting
HAW CC Program Major(s): ABRP

Demand Indicators		Fall of Year		
		2005	2006	2007
1	New & Replacement Positions (State)	-9	-9	29
2	New & Replacement Positions (County)	2	2	5
3	Number of Majors	38	31	25
4	SSH Program Majors in Program Classes	388	275	264
5	SSH Non-Majors in Program Classes	5	0	0
6	SSH in All Program Classes	393	275	264
7	FTE Enrollment in Program Classes	26.20	18.33	17.60
8	Number of Sections Taught	12	12	12

Demand Health
Cautionary

Efficiency Indicators		Fall of Year		
		2005	2006	2007
10	Average Class Size	16.42	11.42	11.00
11	Fill Rate	91.20	63.43	61.11
12	FTE BOR Appointed Faculty	2.00	2.00	2.00
13	Majors / FTE BOR Appointed Faculty	19.00	15.50	12.50
14	Majors / Analytic FTE Faculty	23.75	19.38	15.63
14a	Majors / Analytic FTE Faculty @ 12 cr.	19.00	15.50	12.50
15	Program Budget Allocation ('07 @ 12cr.)	$81,896.00	$80,686.00	$102,004.00
16	Cost per SSH ('07 @ 12cr.)	$204.74	$293.40	$386.38
17	Number of Low-Enrolled (<10) Sections	0	6	6

Efficiency Health
Cautionary

Effectiveness Indicators				
		2005	2006	2007
19	Persistence (Fall to Spring)	78.95	67.74	76.00
20a	Number of Degrees Earned (Annual)*	7	5	4
20b	Number of Certificates of Achievement Earned (Ann	4	10	5
21	Number Transferring (to UHM, UHH, UHWO)	0	0	0
	Perkins - Campus Actual **			
22	1P1 Academic Achievement	53.85	42.86	70
23	1P2 Vocational Achievement	86.67	72.22	53.85
24	2P1 Completion	53.33	22.22	38.46
25	3P1 Placement Employment/Education	100	75	75
26	3P2 Retention Employment	75	100	100
27	4P1 Non Traditional Participation	15.38	20	13.79
28	4P2 Non Traditional Completion	20	0	16.67
	Perkins - State Standards **			
22	1P1 Academic Achievement	81.81	81.92	81.87
23	1P2 Vocational Achievement	90.00	90.00	90.42
24	2P1 Completion	36.00	37.33	38.17
25	3P1 Placement Employment/Education	71.00	71.72	71.07
26	3P2 Retention Employment	90.00	92.00	92.00
27	4P1 Non Traditional Participation	14.81	14.60	14.60
28	4P2 Non Traditional Completion	12.86	12.73	12.19
29	Faculty FTE Workload @ 12 cr.	2	2	2

Effectiveness Health
Healthy

Overall Program Health	Cautionary

*All degrees and certificates are counted based on fiscal year.

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** Perkins data are for CTE programs only. From report on 2006-2007 Perkins activity year

Part II. Analysis of the Program

Strengths and weaknesses in terms of demand, efficiency, and effectiveness based on an analysis of data.

The overall health of the program is cautionary.

The Demand health of this program is cautionary. The number of majors has decreased while the number of new/replacement positions have increased. The ratio of majors to jobs is 5:1

All Efficiency indicators have declined while the cost per SSH have increased. Fill rate is at 61% and majors/FTE BOR appointed faculty is 12.5; both Cautionary.

A positive outcome is the increase in the Persistence rate by 8.26% to 76%. Numbers of degrees and certificates earned have decreased. Ratio of degrees earned to majors is 16%, deemed Cautionary; however the ratio of degrees earned to new/replacement jobs is Healthy.

Significant Program Actions (new certificates, stop-out; gain/loss of positions, results of prior year's action plan)

Action Plan 2007-2008	Status
1. Teach the basic fundamentals of auto body repair and painting, salable skills, good work attitudes, and strive to for 60-80% of its graduates with 100% job placement with entry-level skills or higher, into the auto body collision repair field or related occupations. With the remaining graduates guided to other field of occupations or unrelated decisions.	Ongoing
2. Provide students hands-on experience through pseudo projects, from donated body panels and vehicles to meet the competencies needed to do live projects. Team up students into groups of two or three and assign teams various types of live projects. Instructors need to solicit and select a minimum of six to ten live projects annually according to students' skill level from inter-department, faculty, staff/family and community.	Ongoing
3. Keep abreast of changing technology by attending workshops and seminars offered here, neighbor islands and also on the mainland.	Ongoing
4. Encourage students to participate in attaining their ASE Automotive Service Excellence Certification.	Ongoing
5. Two Certificate of Completion (CC)	Implemented
6. Removal of related subject requirements from Certificate of Achievement.	Implemented

Part III. Action plan

1. Complete installation of Spray Booth to be operational fall 2009. The Paint Booth has been work in progress for a number of years. This has caused the ABRP "Shop" area to be in disarray, giving way to lab spaces. Once the Spray Booth is complete, it will restore normalcy back into the program.

2. With the completion of the Spray Booth, the curriculum for APRP 31, 32, 33, 34 and 35 will be upgraded offering students instruction with equipment used in industry.

3. Replace lab bay 20 foot wide roll up door which was out of commission for over six years causing two repair stalls to become dead space and used for storage. Access to these two work bay stalls will give students more lab area to work in and will enhance student performance.

5. Acquire funding from Perkins to purchase ten new MIG welders and a plasma cutter to replace equipment that are beyond repair. These equipment will enhance welding performance and eliminate student down time.

6. Continue our program effort on student recruitment.

Part IV. Resource Implications (physical, human, financial)

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CHART 1: FACILITIES ASSIGNED TO PROGRAM

List Bdng/Rm/Lab/Shop	**Describe Renovation/Repair Needed**	**Estimated Cost**
Building 321/201 Existing Collision Repair Systems	-remove and disassemble both frame repair systems -relocate frame systems to old paint spray area -reassemble, secure and level frame system -remove in ground hoist, dispose and resurface floor	$1,125,000
Building 321/201 Old Condemned Spray Booth and Paint Prep Room	-remove electrical from spray booth -remove compressed air lines from spray booth -remove SAS air supply system from spray booth -remove water pipe line and spray booth floor drain -disassemble and dispose of old	

	condemned spray booth -remove existing spray booth curbing -level existing spray booth floor -level existing paint prep room floor -install ceiling light fixtures in old spray booth area -install welding plug outlet, upgrade electrical outlets	
Building 321/201 Spray Booth, Prep Station, and Adjoining Paint Mixing and Storage Room	-painting system to be located in old collision repair area -erect new down draft spray booth -erect paint prep station -erect adjoining paint mixing and storage room to booth -install electrical light fixtures -install free air supply system -install self contained compressed air supply system -relocate and set-up paint mixing bank, scales, paint recyclers, gun washers, and paint safe storage	

CHART 2: INVENTORY LIST: EQUIPMENT and CONTROLED PROPERTY

Program Assigned Equipment (E) and Controlled Property (CP) (List in order of chronological depreciation date	Category E = item value> Than $5K CP = item value $1K - $5K	Expected Depreciation Date	Estimated Replacement Cost
(1982) Whitney Frame Alignment System	E	1992	$75,000.00
(1982) Whitney 614 Brake Bending	E	1992	$7,000.00
(1982) South Bend 10 inch Metal Lathe	E	1992	$15,000.00
(1982) Kar Grabber Repair System	E	1992	$20,000.00
(1982) Diarco Power Shear	E	1992	$8,500.00
(1994) Sullair Air	E	2004	$8,500.00

Compressor			
(1999) Lincoln Squarewave TIG Welder	CP	2007	$4,500.00
(1999) 3-D Combination Universal Laser	CP	2009	$4,800.00
(2000) Uni-Ram Solvent Recycle System	CP	2005	$4,500.00
(2000) Solar MIG Welder W/Cart	CP	2008	$2,300.00
(2002) DuPont Chroma Vision	E	2007	$7,250.00
(2002) DuPont Mini Colornet	CP	2007	$4,700.00
(2002) Dedpes 88 Mixer Base	CP	2012	$1,600.00
(2002) Sartorius Scale	CP	2012	$1,800.00
92002) IRT 302 Paint Cure System	CP	2010	$4,600.00
(2002) Dell Optiplex GX240 Computer	CP	2007	$1,500.00
(2002) Dell Optiplex GX240 Computer	CP	2007	$1,500.00
(2002) 3M Self Contained Respirator	CP	2009	$1,200.00
(2002) 3M Self Contained Respirator	CP	2009	$1,200.00
(2002) 3M Self Contained Respirator	CP	2009	$1,200.00
(2002) 3M Self Contained Respirator	CP	2009	$1,200.00
(2002) Viewsonic Projector	CP	2008	$2,500.00
(2004) Toshiba Satellite A40 Lap Top Computer	CP	2008	$1,400.00
(2004) Toshiba Satellite A40 Lap Top Computer	CP	2008	$1,400.00
(2004) Genesis Scan Tool	CP	2008	$3,000.00
(2005) Pro Spot Squeeze Type Resistance Spot	E	2013	$16,000.00

Welder			
(2005) Lincoln Precision TIG 185 Ready Pak Welder	CP	2013	$2,900.00

CHART 2: PERSONNEL

Instructors
Mike Saito, Assoc. Professor
Lloyd Sanborn, Assoc. Professor

CHART 3: BUDGET REQUEST

	Cost
Air Compressor	10,500
Air Dryer Unit	2,500
Dent Removal System	1,500
Dust Extraction System 4 x $1800	7,200
Service Jacks 2 x $600	1,200
Two different Door Skinning Tools 2 x $400	800
Air Conditioning Service Cart and Analyzer	1,600
Hydraulic Lift	500
Air Conditioning Equipment	4,000
Portable Dust Extractors 3 x $7,400	22,200
Frame Machine & Electronic Measuring System	50,000
	$102,000