Assessment Plan

Yuba Community College District

YC - Manufacturing & Welding Technology Program Recommendations

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Program Description: The Welding and Manufacturing Departments at Yuba College prepare students for entry into the workforce as welders and operators. The welding program has expanded to about 350students a year in the program and has a need for expanding the Manufacturing Program which has been without a full time instructor for 4 years. Students need these courses to complete their degrees and certificates. The Welding department also has a need for another full time Welding instructor.

Year of Review: 2011-2012

Type of Review: Annual Update

Executive Summary: The Welding department has done research on the needs of employers in our area and nationally for the welders exiting our program. We want our students to be highly competitive on the local and national level. The Welding department has expanded and improved the equipment and offerings for our students to gain experience, but needs to continue to improve to meets the needs of an ever changing industry. The Manufacturing Program is in need of a full time instructor to meet the needs of industry and to give our students the experience in manufacturing that will ensure that they will be even more competitive. Yuba College is one of the only manufacturing programs left in Northern California.

Future Goals and Program Direction: The Welding program is trying to expand the fabrication portion of the program and add an advanced welder operator program to meet the needs of an ever changing industry. We have listened to our advisory committee and participated in several symposiums on the needs of the welding industry and have seen several themes; fabrication, GTAW, blueprint reading, certification and experience with automated equipment.

Recommendation: Expand the Fabrication Program and form a fabrication certificate

Purchase tools for the fabrication program; Hossfeld bender, dies for Ercolina tubing bender, sharpen blades for shears, pipe stands, feed-in and feed-out tables

Year(s) Requested: 2011-2012

Request Date: 01/26/2012

Recommendation Priority: 3. High Priority

Supporting Evidence: Employers are asking for employees trained in how to use equipment safely and efficiently.

Plans of Action

Plan of Action	Budgetary Impact	Timeline/Responsible Party	Active
Submit proposal to Perkin's committee	50-70,000$	Dan Turner	Yes
Type: Equipment/Technology			

Recommendation: Hire a Full-time Manufacturing Instructor

Hire a Full-time Manufacturing Instructor

Year(s) Requested: 2011-2012

Recommendation Priority: 3. High Priority

Plans of Action

Plan of Action	Budgetary Impact	Timeline/Responsible Party	Active
Forward request to Faculty Staffing Committee	Cost of Instructor and Benefits		Yes
Type: Staffing - Faculty			

Recommendation: Institute a new GTAW program

Purchase new GTAW inverter machines

Year(s) Requested: 2011-2012

Request Date: 02/02/2012

Recommendation Priority: 3. High Priority

Supporting Evidence: students need certification to compete in the marketplace, pipe welding is a need in the industry according to the

ASME code which uses GTAW for the root pass.

Plans of Action

Plan of Action	Budgetary Impact	Timeline/Responsible Party	Active
Present plan to the Perkins committee **Type:** Equipment/Technology	65000$		Yes

Recommendation: Hire a full time welding instructor

Hire a full time welding instructor to accommodate the students need for classes in an expanding program.

Year(s) Requested: 2011-2012
Request Date: 01/26/2012
Recommendation Priority: 3. High Priority
Supporting Evidence: We cannot accommodate all of the students wishing to take welding courses.

Recommendation: Upgrade ventilation System

Expand existing ventilation system and and new systems for the plasma pipe bevel machine and the CNC plasma table

Request Date: 02/01/2012
Recommendation Priority: 3. High Priority
Supporting Evidence: The expansion of the program has led to the purchase of new equipment and needs for more booths for the students to weld and cut safely.

Plans of Action

Plan of Action	Budgetary Impact	Timeline/Responsible Party	Active
Detail plans for new system, retrieve bids, and install **Type:** Facilities	To be determined	Dan Turner	Yes

Recommendation: Purchase a subscription to a Welding certification program

Purchase a subscription to a welding certification program to write WPS's and certifications for the students.

Year(s) Requested: 2011-2012
Request Date: 02/01/2012
Recommendation Priority: 3. High Priority
Supporting Evidence: The students need to have their "papers" (certifications) to apply for jobs, we currently do not have a program to write the certifications for the students. This software will operate in several codes and cross check them automatically for accuracy.

Plans of Action

Plan of Action	Budgetary Impact	Timeline/Responsible Party	Active
Research out best program for the department and present to the Perkin's committee **Type:** Curriculum/SLO	2-3000$ per year	Dan Turner	Yes

Recommendation: Expand Shielding Gas manifold, add a gas mixing system, add a natural gas pump

Expanding the shielding gas manifold will expand the welding areas for welding classes and fabrication. The gas mixing system will allow us to mix our own shielding gasses allowing the program to use different welding processes. The natural gas pump will allow us to teach another cutting process to our students.

Year(s) Requested: 2011-2012
Request Date: 02/01/2012
Recommendation Priority: 3. High Priority
Supporting Evidence: The expanding need for alternative cutting processes and the need for alternative welding processes in industry are asking for students that have experience in these4 fields.

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
Research best equipment and present to Perkin's committee **Type:** Equipment/Technology	15-20,000$	Dan Turner	Yes

Recommendation: New technologies for the Torchmate CNC Table

Add new technologies to the Torchmate CNC table allowing us to teach the students new methods in using a CNC Table

Year(s) Requested: 2011-2012
Request Date: 02/01/2012
Recommendation Priority: 3. High Priority
Supporting Evidence: Technology in the CNC field is changing rapidly. Our students need to be exposed to these changes to be competitive in the industry.

Plans of Action			
Plan of Action	**Budgetary Impact**	**Timeline/Responsible Party**	**Active**
Get a quote for the technology, drive equipment, software, etc. Present to Perkin's committee **Type:** Equipment/Technology	10,000$	Dan Turner	Yes