

Santa Rosa Junior College

Program Resource Planning Process

Welding 2015

1.1a Mission

The mission of the Welding Technology program is to provide entry-level training to students interested in entering the Welding and Welding related industries.

There is a great demand for welders in the commercial plumbing industry, and in the construction trades. There is also a small segment of the population that does ornamental welding for cosmetic applications like gates, and metal sculptures.

We offer a learning environment that is open and affirming to all students, and our instructional programs are flexible to the needs of all students seeking training in their chosen occupational field. The Welding Technology program fosters a learning environment that allows each student to develop the necessary skills to achieve their educational goals. Our faculty provides instruction that reflects the latest demand from the industry partners in the trade.

1.1b Mission Alignment

The Welding Program is in alignment with the District's Mission. We benefit the community we serve by: Increasing Knowledge, Improving Skills and Enhancing Lives. Our students go into society ready to work, earn a living and contribute to the community.

1.1c Description

The Welding Tech Program offers day and evening classes which lead to a Certificate in Welding Technology. This certificate series of classes provides the student with a general education in welding theory, AWS (American Welding Society) standards, and the various application of the number of welding techniques and materials used in the trade.

The student can choose to complete the certificate in 2, 3, 4 or semesters. The program also offers evening classes that provide continuous training opportunities for day certificate students and students working in the Welding industry.

To better serve the needs of our diverse student body, the Welding Technology Program is planning to create a number of skill certificates in the particular areas of specialization. These certificates will be aligned with AWS training criteria, which means that they meet current industry standards. The certificates also give students a document of training verification and recognition that may be helpful in a job application process or to obtain a pay increase in an existing job. Many of our students, who do not have time to complete the full Welding Technology certificate, will find these certificates useful.

1.1d Hours of Office Operation and Service by Location

In order to reach as many students as possible, the Automotive, Diesel, Welding and Machine Tool programs offer day and evening classes (although the current budget climate precludes the offering of most evening classes).

The service center is located in the Lounibos Center Bldg. the administrative office hours are 8:30 am to 12:30 pm Monday through Friday. The service center serves the Automotive, Diesel, Welding and Machine Tool Programs.

The Welding Program shop area is open when classes are in session.

1.2 Program/Unit Context and Environmental Scan

WELDING:

With the reduction in construction and manufacturing jobs, due to the economy, welding positions have declined. Jobs are not as plentiful as in the past few years. However, employers who are in need of qualified employees continue to contact the SRJC Welding program due to the reputation of the program in training welders.

Even with the overall decline in construction jobs there are pockets of the industry that are booming, and these include areas that require some sort of welding applications. The demand for the welding program has not decreased. In fact it may have increased. The students see the possibility of employment in the welding industry better than many other areas. Feedback from the Welding advisory committee suggests that the job market will improve in 2011 when the construction industry improves. Also, it is anticipated that growth in "green" construction will bring new employment opportunities for individuals with welding skills. The AWS Certifications that SRJC has been doing for students since 1972 is the single most important requirement related to the program. SRJC's welding program coordinator has a very close relationship with the majority of employers locally which puts us first in line for the job market. Few of our students transfer to other institutions. Accordingly, industry support continues to be positive with donations to the program, e.g. metal, welding rods, and small equipment.

2.1a Budget Needs

The cost of instructional material for the Welding program has increased dramatically. These include metal, welding rods, gases and other consumables needed to run the class. The students cannot be charged for these materials, so it is incumbent upon the program to provide these items to the students.

The equipment is aging; we need to replace our two shears as they barely cut anymore. Also, 7 of the 24 arc welders are dilapidated and in constant need of repair. These should be replaced.

Welding - FY 2013-14

2.1 Fiscal Year Expenditures

Santa Rosa Campus

| Expenditure Category | Unrestricted Funds | Change from 2012-13 | Restricted Funds | Change from 2012-13 | Total | Change from 2012-13 |
|--------------------------------------|--------------------|---------------------|------------------|---------------------|--------------------|---------------------|
| Faculty payroll | \$0.00 | -100.00% | \$0.00 | 0.00% | \$0.00 | -100.00% |
| Adjunct payroll | \$32,992.24 | 9.51% | \$0.00 | 0.00% | \$32,992.24 | 9.51% |
| Classified payroll | \$0.00 | 0.00% | \$0.00 | 0.00% | \$0.00 | 0.00% |
| STNC payroll | \$0.00 | 0.00% | \$0.00 | 0.00% | \$0.00 | 0.00% |
| Student payroll | \$0.00 | 0.00% | \$0.00 | 0.00% | \$0.00 | 0.00% |
| Management payroll (and Dept Chairs) | \$0.00 | 0.00% | \$0.00 | 0.00% | \$0.00 | 0.00% |
| Benefits (3000's) | \$2,368.38 | -92.92% | \$0.00 | 0.00% | \$2,368.38 | -92.92% |
| Supplies (4000's) | \$26,225.38 | 16.47% | \$0.00 | 0.00% | \$26,225.38 | 16.47% |
| Services (5000's) | \$1.75 | -64.50% | \$0.00 | 0.00% | \$1.75 | -64.50% |
| Equipment (6000's) | \$0.00 | -100.00% | \$0.00 | 0.00% | \$0.00 | -100.00% |
| Total Expenditures | \$61,587.75 | -64.37% | \$0.00 | 0.00% | \$61,587.75 | -64.37% |

Expenditure Totals

| Expenditure Category | Amount | Change from 2012-13 | District Total | % of District Total |
|-----------------------------|-------------|---------------------|------------------|---------------------|
| Total Expenditures | \$61,587.75 | -64.37% | \$120,253,860.49 | 0.05% |
| Total Faculty Payroll | \$32,992.24 | -70.60% | \$43,245,546.66 | 0.08% |
| Total Classified Payroll | \$0.00 | 0.00% | \$19,181,736.44 | 0.00% |
| Total Management Payroll | \$0.00 | 0.00% | \$8,511,170.13 | 0.00% |
| Total Salary/Benefits Costs | \$35,360.62 | -75.73% | \$90,311,305.65 | 0.04% |
| Total Non-Personnel Costs | \$26,227.13 | -3.54% | \$15,816,837.66 | 0.17% |

2.1b Budget Requests

| Rank | Location | SP | M | Amount | Brief Rationale |
|------|----------|----|----|-------------|--|
| 0001 | ALL | 02 | 01 | \$5,000.00 | Rising cost of consumables such as metal welding rods and gases used to operate the class. |
| 0002 | ALL | 04 | 01 | \$10,000.00 | replace 7 arc welders that are old and in constant need of repair. |
| 0003 | ALL | 04 | 01 | \$60,000.00 | replace two old and distressed shears |

2.2a Current Classified Positions

| Position | Hr/Wk | Mo/Yr | Job Duties |
|-----------------------------|-------|-------|---|
| Administrative Assistant II | 20.00 | 12.00 | Provides administrative and program support to Department Chair, faculty, staff and students. Monitors budgets and prepares all Schedule Change Forms, Personnel Action Forms, helps with scheduling, and coordinates four advisory committees, events, and certificate ceremonies for Industrial & Trade Technology. Serves on various committees, and provides guidance to new faculty. |

2.2b Current Management/Confidential Positions

| Position | Hr/Wk | Mo/Yr | Job Duties |
|----------|-------|-------|------------|
|----------|-------|-------|------------|

| | | | |
|------------------|-------|-------|---|
| Department Chair | 12.00 | 12.00 | Evaluates faculty and staff, coordinates classes, reviews curriculum, on call for any problems. Trains new faculty, reviews and implements purchase orders, budget transfers, scheduling, and curriculum. Serves on department advisory committees (Machine, Automotive, Diesel, and Welding) |
|------------------|-------|-------|---|

2.2c Current STNC/Student Worker Positions

| Position | Hr/Wk | Mo/Yr | Job Duties |
|---|-------|-------|--|
| The department has no student or STNC workers | 0.00 | 0.00 | Although there are no student or STNC workers at the present time, the department feels there is a need and will be requesting additional help. Welding has been borrowing STNC helpers from Machine Tool. |

2.2d Adequacy and Effectiveness of Staffing

The cost of instructional materials for the Welding program has increased dramatically. These include metal, welding rods, gases and other consumables needed to run the class. The students cannot be charged for these materials, so it is incumbent upon the program to provide these items to the students.

The equipment is aging; we need to replace our two shears as they barely cut anymore. Also, 7 of the 24 arc welders are dilapidated and in constant need of repair. These should be replaced.

The welding program has no support positions, but there is a great need for help. Currently, the faculty spends about 45 minutes prior to each class cutting metal for the labs. Also, routine cleaning/maintenance of the shop takes about 100 hours a semester. This involves dismantling, cleaning, and reassembly of machines. Currently the full time faculty member is doing this on his own time.

We are requesting an STNC for 14 to 20 hours a week (238 to 340 hours a semester) to help with these duties.

Welding - FY 2013-14

2.2 Fiscal Year Employee Data and Calculations

Employee Head Counts

| Employee Category | Count | Change from 2012-13 | District Total | % of District Total |
|-----------------------|-------|---------------------|----------------|---------------------|
| Contract Faculty | 0 | -100.00% | 277 | 0.00% |
| Adjunct Faculty | 3 | 50.00% | 1351 | 0.22% |
| Classified Staff | 0 | 0.00% | 490 | 0.00% |
| STNC Workers | 0 | 0.00% | 458 | 0.00% |
| Student Workers | 0 | 0.00% | 610 | 0.00% |
| Mgmt/Admin/Dept Chair | 0 | 0.00% | 144 | 0.00% |

Employee FTE Totals

| FTE Category | FTE | Change from 2012-13 | District Total | % of District Total |
|--------------|-----|---------------------|----------------|---------------------|
|--------------|-----|---------------------|----------------|---------------------|

| | | | | |
|----------------------------|--------|----------|----------|-------|
| FTE-F - Faculty | 1.4000 | -41.67% | 679.6236 | 0.21% |
| FTE-CF - Contract Faculty | 0.0000 | -100.00% | 274.8500 | 0.00% |
| FTE-AF - Adjunct Faculty | 1.4000 | 0.00% | 404.7736 | 0.35% |
| FTE-C - Classified | 0.0000 | 0.00% | 407.3756 | 0.00% |
| FTE-ST - STNC | 0.0000 | 0.00% | 63.8460 | 0.00% |
| FTE-SS - Support Staff | 0.0000 | 0.00% | 647.5458 | 0.00% |
| FTE-SW - Student Workers | 0.0000 | 0.00% | 176.3242 | 0.00% |
| FTE-M - Management | 0.0000 | 0.00% | 114.8000 | 0.00% |
| FTE-DC - Department Chairs | 0.0000 | 0.00% | 50.0000 | 0.00% |

Student Data

| Data Element | Value | Change from 2012-13 | District Total | % of District Total |
|--------------------------|---------|---------------------|----------------|---------------------|
| FTES-CR - Credit | 52.3333 | 9.94% | 16276.6188 | 0.32% |
| FTES-NC - Non-Credit | 0.0000 | 0.00% | 2028.0819 | 0.00% |
| FTES - combined | 52.3333 | 9.94% | 18304.7007 | 0.29% |
| Students Enrolled/Served | 328 | 10.81% | 30000 | 1.09% |

Calculations

| Data Element | Value | Change from 2012-13 | District Total | % of District Total |
|---|-------------|---------------------|----------------|---------------------|
| FTE-S : FTE-F | 37.3809 | 88.48% | 26.9336 | 138.79% |
| FTE-AF : FTE-CF | 0.0000 | -100.00% | 1.4727 | 0.00% |
| FTE-F : FTE-SS | 0.0000 | 0.00% | 1.0495 | 0.00% |
| FTE-F : FTE-M | 0.0000 | 0.00% | 5.9201 | 0.00% |
| FTE-SS : FTE-M | 0.0000 | 0.00% | 5.6406 | 0.00% |
| FTE-ST : FTE-C | 0.0000 | 0.00% | 0.1567 | 0.00% |
| Average Faculty Salary per FTE-F | \$23,565.89 | -49.60% | \$63,631.61 | 37.03% |
| Average Classified Salary per FTE-C | \$0.00 | 0.00% | \$47,086.12 | 0.00% |
| Average Management Salary per FTE-M | \$0.00 | 0.00% | \$74,139.11 | 0.00% |
| Salary/Benefit costs as a % of total budget | 57.42% | -31.87% | 75.10% | 76.45% |
| Non-Personnel \$ as a % of total budget | 42.58% | 170.75% | 13.15% | 323.77% |
| Restricted Funds as a % of total budget | 0.00% | 0.00% | 11.75% | 0.00% |
| Total Unit Cost per FTE-F | \$43,991.25 | -38.93% | \$176,941.86 | 24.86% |
| Total Unit Cost per FTE-C | \$0.00 | 0.00% | \$295,191.61 | 0.00% |
| Total Unit Cost per FTE-M | \$0.00 | 0.00% | \$1,047,507.50 | 0.00% |
| Total Unit Cost per FTE-S | \$1,176.84 | -67.60% | \$6,569.56 | 17.91% |
| Total Unit Cost per student served/enrolled | \$187.77 | -67.85% | \$4,008.46 | 4.68% |

Welding - FY 2013-14

2.2a Classified Positions Employees paid from a Classified OBJECT code

| Name Last | First | Position | Hours | FTE |
|--------------------|-------|----------|-------|-----|
| << No Employees >> | | | | |

Welding - FY 2013-14

2.2b Management/Confidential Positions Employees paid from a Management/Confidential OBJECT code

| Name Last | First | Position | Hours | FTE |
|--------------------|-------|----------|-------|-----|
| << No Employees >> | | | | |

Welding - FY 2013-14

2.2c STNC Workers Employees paid from an STNC OBJECT code

| Name Last | First | Position | Hours | FTE |
|--------------------|-------|----------|-------|-----|
| << No Employees >> | | | | |

Welding - FY 2013-14

2.2d Student Employees Employees paid from a Student Employee OBJECT code

| Name Last | First | Position | Hours | FTE |
|--------------------|--------------|-----------------|--------------|------------|
| << No Employees >> | | | | |

2.2e Classified, STNC, Management Staffing Requests

| Rank | Location | SP | M | Current Title | Proposed Title | Type |
|------|------------|----|----|---------------|----------------|------|
| 0001 | Santa Rosa | 01 | 01 | Lab Assistant | Lab Assistant | STNC |

2.3a Current Contract Faculty Positions

| Position | Description |
|--|---|
| Welding Instructor/Program Coordinator | The full-time instructor has program coordination duties with disciplinary expertise in welding. Coordinates closely with Advisory Committees and industry associations. Involved with program and outreach responsibilities. Supervises adjunct instructors and coordinates faculty and equipment needs for the welding programs. Additionally has a welding shop to coordinate in order to effectively serve student needs. |

2.3b Full-Time and Part-Time Ratios

| Discipline | FTEF Reg | % Reg Load | FTEF Adj | % Adj Load | Description |
|------------|-------------|---------------|-------------|---------------|-------------|
| Welding | 1.0000 | 100.0000 | 0.8000 | 80.0000 | |

2.3c Faculty Within Retirement Range

Our one full time faculty is within retirement age

2.3d Analysis of Faculty Staffing Needs and Rationale to Support Requests

The welding department needs more faculty to effectively train our students. Two additional adjunct or one full time faculty would be adequate.

During the Spring 2014 semester we hired two new adjunct welding instructors, and have a third that we are going to interview.

It is very difficult to find a welder talented enough to teach all aspects of welding at the college level, who also has a desire to (and is capable of) transmitting his/her talent to the students. The candidate is not only rare, but must also be pruned away from a career that is more lucrative than teaching.

Welding - FY 2013-14

2.3a Contract Faculty Positions Employees paid from a Contract Faculty OBJECT code

| Name Last | First | Position | Hours | HR FTE | DM FTE |
|--------------------|-------|----------|-------|--------|--------|
| << No Employees >> | | | | | |

Welding - FY 2013-14

2.3b Adjunct Faculty Positions Employees paid from an Adjunct Faculty OBJECT code

| Name Last | First | Position | Hours | FTE |
|---------------|-------------|----------|---------------|---------------|
| Diaz | Christopher | | 136.00 | 0.2000 |
| Fontaine | James | | 140.00 | 0.2000 |
| Whitaker | Benjamin | | 170.25 | 1.0000 |
| Totals | | | 446.25 | 1.4000 |

2.3e Faculty Staffing Requests

| Rank | Location | SP | M | Discipline | SLO Assessment Rationale |
|------|----------|----|----|--------------------|---|
| 0001 | ALL | 02 | 01 | Welding Technology | <p>Welding needs an additional contract faculty to adequately instruct our students! The welding departments SLOs revolve around technical skill in welding of all types. This faculty member would help impart to our students the skills that they need to attain all of our established SLOs.</p> <p>In addition he/she will be responsible for monitoring and improving our Student Learning Outcome system.</p> <p>In the past, our welding department employed two full time faculty. The student load is greater than ever, and we currently employ three adjunct instructors. Even with the help of these three instructors the classes are still overloaded, and shop safety would be enhanced by employing a second full time faculty and cutting class sizes to a safer level.</p> |

2.4b Rational for Instructional and Non-Instructional Equipment, Technology, and Software

1. We need to discontinue our current practice of renting gas cylinders and purchase them instead. While the initial outlay would be expensive, the cylinders have a life of 30 years and would pay for themselves in 3 to 5 years. This year we were able to purchase 7 cylinders, we need 12 more.

2. A weather proof area needs to be created to protect valuable materials. This can be done by installing plastic "ribs" in the existing chain link enclosed storage area.

3. Pallet racks to organize and store materials, This will save time and materials, allowing for better student learning.

4. Helmets and goggles are needed for the students, they are expensive and wear out. The goggles and helmets speak directly to student safety. They get harder and harder to see through, making it near impossible for students to complete their work do to lack of vision. We keep 25 helmets in stock at \$40-50 each, and 14 goggles @ 37.00 each. These last no more than a year.

2.4c Instructional Equipment and Software Requests

| Rank | Location | SP | M | Item Description | Qty | Cost Each | Total Cost | Requestor | Room/Space | Contact |
|------|------------|----|----|---|-----|------------|-------------|-----------|------------|--------------|
| 0001 | Santa Rosa | 01 | 01 | welding machines electric | 20 | \$1,500.00 | \$30,000.00 | Welding | | Ben Whitaker |
| 0002 | Santa Rosa | 01 | 01 | Materials for weather proofing metal storage | 1 | \$1,000.00 | \$1,000.00 | Welding | | Ben Whitaker |
| 0003 | Santa Rosa | 04 | 06 | Pallet racks to organize and store materials, | 2 | \$2,000.00 | \$4,000.00 | Welding | | Ben Whitaker |
| 0004 | Santa Rosa | 01 | 01 | Welding Helmets | 25 | \$100.00 | \$2,500.00 | Welding | | Ben Whitaker |
| 0005 | Santa Rosa | 01 | 01 | Welding goggles | 25 | \$37.00 | \$925.00 | Welding | | Ben Whitaker |
| 0006 | Santa Rosa | 01 | 01 | Welding Simulators | 12 | \$3,000.00 | \$36,000.00 | Welding | | Ben Whitaker |

2.4d Non-Instructional Equipment, Software, and Technology Requests

| Rank | Location | SP | M | Item Description | Qty | Cost Each | Total Cost | Requestor | Room/Space | Contact |
|------|----------|----|----|---------------------------|-----|-----------|------------|-----------|------------|---------|
| 0000 | ALL | 00 | 00 | No requests at this time. | 0 | \$0.00 | \$0.00 | | | |

2.5a Minor Facilities Requests

| Rank | Location | SP | M | Time Frame | Building | Room Number | Est. Cost | Description |
|------|----------|----|----|------------|----------|-------------|-------------|---|
| 0001 | ALL | 04 | 06 | Urgent | Lounibos | | \$1,000.00 | Weather proof storage area |
| 0001 | ALL | 01 | 01 | Urgent | Lounibos | 2395 | \$32,000.00 | Add lighting to the 12 welding stations, for student safety. The inadequate lighting makes set up hard and creates a safety issue. The dust hog vents are currently blocking much of the needed lighting. |

2.5b Analysis of Existing Facilities

The existing facilities are old and in need of painting and refurbishing. **It has been more than 30 years since the facility has been painted,** and any repairs that are performed are done so out of necessity to keep the program running. The faculty member does the best he can maintaining the equipment, but some of the older machines will need to be replaced.

Lighting is a issue. The addition of a dust collector has severely diminished the lighting levels.

3.1 Develop Financial Resources

3.2 Serve our Diverse Communities

We hire through the SRJC Human Resources department using the standard recruitment methods.

We try to recruit both students and instructors from local businesses that service a wide demographic area. Also, Industrial and Trade Technology encourages faculty participation in classes and flex sessions (offered on or off campus) that broaden our staff's cultural awareness and sensitivity.

3.3 Cultivate a Healthy Organization

The Industrial and Trade Technology department supports the professional development of our classified staff by allowing them time during normal work hours to attend training sessions. These sessions are designed to train the employees in subject areas that allow them to better do their jobs. Examples of these subjects are: PRPP writing, CIS, forklift safety and operation, first-aid, CPR, and any other training applicable to their jobs.

3.4 Safety and Emergency Preparedness

Cliff Norton and Dave Yoast are safety leaders for the department.

3.5 Establish a Culture of Sustainability

We have new filters on our exhaust, helping reduce pollution created in the shop being venting into the environment.

We recycle all our metal, and other disposables.

4.1a Course Student Learning Outcomes Assessment

All courses in the welding curriculum are on a six year assessment cycle.

During the six year cycle, at least on SLO will be assessed in each class.
Please refer to the grid below to view our schedule and completions:

Welding Tech; Course SLO Assessment Six Year Cycle

| Course | S2013 | F2013 | S2014 | F2014 |
|---|-----------|-----------|-----------|-----------|
| Weld 70 - Beginning Welding | | X (SLO 1) | | |
| Weld 171.1 - Advanced Shielded Metal Arc Welding | | | X (SLO 1) | |
| Weld 171.2 - Gas Metal Arc Welding & Gas Tungsten Arc Welding | X (SLO 1) | | | |
| Weld 171.3 - Flux Core Arc Wlding (FCAW) | | | | X (SLO 1) |
| Weld 175A - Welding Technology 1 | | | | X (SLO 1) |
| Weld 175B - Welding Technology 2 | | | | X (SLO 1) |
| *Weld 98 - Independent Study in Welding | | | | |
| | | | | |
| Required Courses | | | | |
| | | | | |
| *Not Currently Offered | | | | |

X=SCHEDULED

X=COMPLETED

4.1b Program Student Learning Outcomes Assessment

The welding program has only one completion certificate. That certificate was assessed in Spring 2014, and was deemed successful (no changes needed).

At SRJC, our assessment cycle is that each certificate/major must be assessed at least once every six years. The next certificate assessment will be in Spring of 2017.

4.1c Student Learning Outcomes Reporting

| Type | Name | Student Assessment Implemented | Assessment Results Analyzed | Change Implemented |
|-------------------|-----------------------------|--------------------------------|-----------------------------|--------------------|
| Course | Weld70 - Beginning welding | Fall 2013 | Fall 2013 | N/A |
| Course | Weld171.1 -Advanced SMAW | Spring 2014 | Spring 2014 | N/A |
| Course | Weld171.2 Gas MAW & Gas TAW | Spring 2013 | Spring 2013 | N/A |
| Course | Weld171.3 FCAW | Fall 2014 | Fall 2014 | N/A |
| Course | Weld175A - Welding Tech1 | Fall 2014 | Fall 2014 | N/A |
| Course | Weld175B - Welding Tech2 | Fall 2014 | Fall 2014 | N/A |
| Certificate/Major | Welding Tech Certificate | Spring 2014 | Spring 2014 | N/A |

4.2a Key Courses or Services that address Institutional Outcomes

| Course/Service | 1a | 1b | 1c | 2a | 2b | 2c | 2d | 3a | 3b | 4a | 4b | 5 | 6a | 6b | 6c | 7 |
|----------------|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|---|
|----------------|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|---|

| | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| weld70 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| weld70b | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| weld75a | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| weld75b | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

4.2b Narrative (Optional)

Welding has committed to assessing one course or certificate a semester. There are 8 courses and one certificate, allowing for a full rotation within the 6 year time frame.

5.0 Performance Measures

Not Applicable

5.1 Effective Class Schedule: Course Offerings, Times, Locations, and Delivery Modes (annual)

The Welding Technology department offers both day and evening courses. We have not expanded to other campuses/sites as there are no shop facilities available at the present time, and budget constraints are dictating that we shrink our programs, not expand them.

We do not offer a distance learning component as all the current classes are hands on. We would be better able to serve our students if we had more up-to-date equipment available.

Welding - FY 2013-14 (plus current FY Summer and Fall)

5.1 Student Headcounts The number of students enrolled in each Discipline at first census (duplicated headcount).

Santa Rosa Campus

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0 | 168 | 165 | 0 | 130 | 143 | 0 | 143 | 153 |

Petaluma Campus (Includes Rohnert Park and Sonoma)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Other Locations (Includes the PSTC, Windsor, and other locations)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ALL Locations (Combined totals from ALL locations in the District)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0 | 168 | 165 | 0 | 130 | 143 | 0 | 143 | 153 |

5.2a Enrollment Efficiency

Welding classes also fill very quickly (106%/85.5%), but capacity is limited to due work stations and facilities. Due to the current budget situation, it is not possible to open new sections.

Welding - FY 2013-14 (plus current FY Summer and Fall)

5.2a Enrollment Efficiency The percentage of seats filled in each Discipline at first census based on class limit (not room size).

Santa Rosa Campus

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|--------|--------|-------|-------|--------|-------|--------|--------|
| Welding | 0.0% | 101.2% | 107.1% | 0.0% | 91.5% | 108.3% | 0.0% | 100.7% | 110.2% |

Petaluma Campus (Includes Rohnert Park and Sonoma)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

Other Locations (Includes the PSTC, Windsor, and other locations)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

ALL Locations (Combined totals from ALL locations in the District)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|--------|-------|-------|--------|-------|--------|--------|
| Welding | 0.0% | 85.7% | 107.1% | 0.0% | 91.5% | 108.3% | 0.0% | 100.7% | 110.2% |

5.2b Average Class Size

The Welding classes close before open registration, and remain close to class max size for the entire semester.

Welding - - FY 2013-14 (plus current FY Summer and Fall)

5.2b Average Class Size The average class size in each Discipline at first census (excludes cancelled classes).

Santa Rosa Campus

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0 | 24.0 | 23.6 | 0.0 | 21.7 | 23.8 | 0.0 | 23.8 | 25.2 |

Petaluma Campus (Includes Rohnert Park and Sonoma)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Other Locations (Includes the PSTC, Windsor, and other locations)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

ALL Locations (Combined totals from ALL locations in the District)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0 | 21.0 | 23.6 | 0.0 | 21.7 | 23.8 | 0.0 | 23.8 | 25.2 |

5.3 Instructional Productivity

The instructional productivity is less than, but very close to the district target due to the 24 student class limit.

Welding - FY 2013-14 (plus current FY Summer and Fall)

5.3 Instructional Productivity The ratio of Full-Time Equivalent Students (FTES) to Full-Time Equivalent Faculty (FTEF) in each Discipline at first census.

Santa Rosa Campus

| Welding | | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|---------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|
| | FTES | 0.00 | 28.53 | 28.13 | 0.00 | 22.13 | 25.47 | 0.00 | 25.73 | 26.60 |
| | FTEF | 0.00 | 1.81 | 1.80 | 0.00 | 1.60 | 1.60 | 0.00 | 1.63 | 1.80 |
| | Ratio | 0.00 | 15.75 | 15.63 | 0.00 | 13.83 | 15.92 | 0.00 | 15.75 | 14.78 |

Petaluma Campus (Includes Rohnert Park and Sonoma)

| Welding | | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|---------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | FTES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | FTEF | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Ratio | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Other Locations (Includes the PSTC, Windsor, and other locations)

| Welding | | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|---------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | FTES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | FTEF | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Ratio | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ALL Locations (Combined totals from ALL locations in the District)

| Welding | | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|---------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|
| | FTES | 0.00 | 28.53 | 28.13 | 0.00 | 22.13 | 25.47 | 0.00 | 25.73 | 26.60 |
| | FTEF | 0.00 | 1.81 | 1.80 | 0.00 | 1.60 | 1.60 | 0.00 | 1.63 | 1.80 |
| | Ratio | 0.00 | 15.75 | 15.63 | 0.00 | 13.83 | 15.92 | 0.00 | 15.75 | 14.78 |

5.4 Curriculum Currency

All of our curriculum is current

| DisciplineNbr | VersionNbr | TermCourseLastTaught | DateLastReview | CourseStatus | ApprovalStatus | Cred |
|---------------|------------|----------------------|----------------|----------------------------|----------------|------|
| WELD 121 | 1 | | 4/8/2014 | New Course (First Version) | Approved | no |
| WELD 171.1 | 1 | Fall 2014 | 3/31/2014 | New Course (First Version) | Approved | no |
| WELD 171.2 | 1 | Fall 2014 | 3/31/2014 | New Course (First Version) | Approved | no |
| WELD 171.3 | 1 | Fall 2014 | 3/31/2014 | New Course (First Version) | Approved | no |
| WELD 175A | 5 | Fall 2014 | 10/28/2013 | Changed Course | Approved | no |
| WELD 175B | 5 | Fall 2014 | 10/28/2013 | Changed Course | Approved | no |
| WELD 70 | 6 | Fall 2014 | 10/14/2013 | Changed Course | Approved | no |
| WELD 71 | 5 | Spring 2014 | 3/12/2012 | Changed Course | Approved | no |
| WELD 98 | 4 | Spring 2014 | 3/12/2012 | Changed Course | Approved | no |

5.5 Successful Program Completion

We always encourage our students to complete the full welding certificate. Many students "job out", in other words get the skills they need to to get a job or keep their job. The deapartment is panning on revising the certificate next year, and creating skills certificates and capstone courses to increase program completion rates.

| Cert Code | TOP | Description | Prog Awrd | 2002 2003 | 2003 2004 | 2004 2005 | 2005 2006 | 2006 2007 | 2007 2008 |
|-----------|--------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 3035 | 095650 | Welding Technology | E | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | L | 2 | 7 | 5 | 8 | 7 | 2 |

5.6 Student Success

The student success indicators either meet or exceed the district guidelines in all three of the listed areas.

Welding - FY 2013-14 (plus current FY Summer and Fall)

5.6a Retention The percentage of students receiving a grade of A,B,C,D,CR, or I in each Discipline (duplicated headcount).

Santa Rosa Campus

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0% | 83.1% | 87.7% | 0.0% | 89.2% | 90.9% | 0.0% | 90.9% | 86.9% |

Petaluma Campus (Includes Rohnert Park and Sonoma)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

Other Locations (Includes the PSTC, Windsor, and other locations)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

ALL Locations (Combined totals from ALL locations in the District)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0% | 83.1% | 87.7% | 0.0% | 89.2% | 90.9% | 0.0% | 90.9% | 86.9% |

FY 2013-14 (plus current FY Summer and Fall)

5.6b Successful Course Completion The percentage of students receiving a grade of A,B,C, or CR in each Discipline (duplicated headcount).

Santa Rosa Campus

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0% | 80.7% | 87.1% | 0.0% | 89.2% | 90.2% | 0.0% | 90.9% | 85.0% |

Petaluma Campus (Includes Rohnert Park and Sonoma)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

Other Locations (Includes the PSTC, Windsor, and other locations)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

ALL Locations (Combined totals from ALL locations in the District)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.0% | 80.7% | 87.1% | 0.0% | 89.2% | 90.2% | 0.0% | 90.9% | 85.0% |

FY 2013-14 (plus current FY Summer and Fall)

5.6c Grade Point Average The average GPA in each Discipline (UnitsTotal / GradePoints).

Santa Rosa Campus

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.00 | 2.80 | 3.17 | 0.00 | 3.24 | 3.41 | 0.00 | 3.30 | 2.97 |

Petaluma Campus (Includes Rohnert Park and Sonoma)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Other Locations (Includes the PSTC, Windsor, and other locations)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ALL Locations (Combined totals from ALL locations in the District)

| Discipline | X2011 | F2011 | S2012 | X2012 | F2012 | S2013 | X2013 | F2013 | S2014 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding | 0.00 | 2.80 | 3.17 | 0.00 | 3.24 | 3.41 | 0.00 | 3.30 | 2.97 |

5.7 Student Access

Welding - FY 2013-14 (plus current FY Summer and Fall)

5.7a Students Served - by Ethnicity The number of students in each Discipline at first census broken down by ethnicity (duplicated headcount).

ALL Locations (Combined totals from ALL locations in the District)

| Welding | Ethnicity | 2011-12 | Percent | 2012-13 | Percent | 2013-14 | Percent | 2014 |
|---------|------------------------|------------|---------------|------------|---------------|------------|---------------|------|
| | White | 202 | 66.7% | 158 | 61.7% | 158 | 57.0% | |
| | Asian | 4 | 1.3% | 5 | 2.0% | 8 | 2.9% | |
| | Black | 3 | 1.0% | 4 | 1.6% | 10 | 3.6% | |
| | Hispanic | 43 | 14.2% | 54 | 21.1% | 75 | 27.1% | |
| | Native American | 9 | 3.0% | 3 | 1.2% | 2 | 0.7% | |
| | Pacific Islander | 0 | 0.0% | 0 | 0.0% | 2 | 0.7% | |
| | Filipino | 2 | 0.7% | 2 | 0.8% | 0 | 0.0% | |
| | Other Non-White | 0 | 0.0% | 0 | 0.0% | 14 | 5.1% | |
| | Decline to state | 40 | 13.2% | 30 | 11.7% | 8 | 2.9% | |
| | ALL Ethnicities | 303 | 100.0% | 256 | 100.0% | 277 | 100.0% | |

FY 2013-14 (plus current FY Summer and Fall)

5.7b Students Served - by Gender The number of students in each Discipline at first census broken down by gender (duplicated headcount).

ALL Locations (Combined totals from ALL locations in the District)

| Welding | Gender | 2011-12 | Percent | 2012-13 | Percent | 2013-14 | Percent | 2014 |
|---------|--------------------|------------|---------------|------------|---------------|------------|---------------|------|
| | Male | 268 | 88.4% | 236 | 92.2% | 252 | 91.0% | |
| | Female | 24 | 7.9% | 19 | 7.4% | 21 | 7.6% | |
| | Unknown | 11 | 3.6% | 1 | 0.4% | 4 | 1.4% | |
| | ALL Genders | 303 | 100.0% | 256 | 100.0% | 277 | 100.0% | |

FY 2013-14 (plus current FY Summer and Fall)

5.7c Students Served - by Age The number of students in each Discipline at first census broken down by age (duplicated headcount).

ALL Locations (Combined totals from ALL locations in the District)

| Welding | Age Range | 2011-12 | Percent | 2012-13 | Percent | 2013-14 | Percent | 2014 |
|---------|-----------------|------------|---------------|------------|---------------|------------|---------------|------|
| | 0 thru 18 | 42 | 13.9% | 33 | 12.9% | 28 | 10.1% | |
| | 19 and 20 | 87 | 28.7% | 57 | 22.3% | 73 | 26.4% | |
| | 21 thru 25 | 79 | 26.1% | 79 | 30.9% | 80 | 28.9% | |
| | 26 thru 30 | 25 | 8.3% | 22 | 8.6% | 37 | 13.4% | |
| | 31 thru 35 | 19 | 6.3% | 22 | 8.6% | 24 | 8.7% | |
| | 36 thru 40 | 15 | 5.0% | 16 | 6.3% | 15 | 5.4% | |
| | 41 thru 45 | 10 | 3.3% | 6 | 2.3% | 4 | 1.4% | |
| | 46 thru 50 | 3 | 1.0% | 9 | 3.5% | 6 | 2.2% | |
| | 51 thru 60 | 17 | 5.6% | 7 | 2.7% | 8 | 2.9% | |
| | 61 plus | 6 | 2.0% | 5 | 2.0% | 2 | 0.7% | |
| | ALL Ages | 303 | 100.0% | 256 | 100.0% | 277 | 100.0% | |

5.8 Curriculum Offered Within Reasonable Time Frame

All courses are offered every semester.

5.9a Curriculum Responsiveness

5.9b Alignment with High Schools (Tech-Prep ONLY)

At this time there are only two high schools in the county with metal shop courses, and do not teach enough welding to meet the credit by exam standards.

5.10 Alignment with Transfer Institutions (Transfer Majors ONLY)

There are no transfer programs that include welding as a major.

5.11a Labor Market Demand (Occupational Programs ONLY)

WELDING:

The job market has decreased due to the economy. Steel construction and MFG. has declined. Jobs are not as plentiful as in the past few years. However, employers who are in need of qualified employees continue to contact the SRJC Welding Dept. for these people due to the reputation of proven quality welders.

Even with the employment problems, the demand for the welding program has not decreased. In fact it may have increased. The students see the possibility of employment in the welding industry better than many other areas. It is anticipated the welding industries will improve, jobs will open up and those who have prepared properly today will get those jobs.

Welding

Welding is a highly skilled trade and welders may be employed in areas of ship building, bridges and building construction, pipeline construction, refrigeration, missile and aircraft construction, automobiles, and a variety of related areas where metal must be joined together.

Developments in metallurgy have created many new types of metals that require new techniques. Welders who qualify are always in demand. The current hourly rate for welders is \$10-\$18.

Occupational Projections of Employment 2012-2022

California 514121 Welders, Cutters, Solderers, and Brazers, 60 total

California 514122 Welding, Soldering, and Brazing Machine Setters, Operators, 70 total

5.11b Academic Standards

—

6.1 Progress and Accomplishments Since Last Program/Unit Review

| Rank | Location | SP | M | Goal | Objective | Time Frame | Progress to Date |
|------|----------|----|---|------|-----------|------------|------------------|
|------|----------|----|---|------|-----------|------------|------------------|

6.2a Program/Unit Conclusions

| Location | Program/Unit Conclusions |
|------------|---|
| Santa Rosa | This is a well enrolled program with excellent industry demand. It has high retention, high rate of successful course completion, but few certificate completers. Over the next year, with the assistance of the advisory committee, the certificate will be revised to align with industry needs. This will include a number of skill certificates that will focus on specific skill sets. |

6.2b PRPP Editor Feedback - Optional

The Welding program is a high demand program with excellent enrollments and retention. Having the department in the cluster for only one academic year, most of the energy of the coordinator and the dean has been dedicated to evaluation and planning.

The major concern is that there are so few certificate completers in such a high demand program. The next year will be dedicated to revising the certificate, and adding courses for welding professionals, with the goal of increasing the number of completers.

6.3a Annual Unit Plan

| Rank | Location | SP | M | Goal | Objective | Time Frame | Resources Required |
|------|----------|----|---|------|-----------|------------|--------------------|
|------|----------|----|---|------|-----------|------------|--------------------|