"Doing What Matters for Jobs and the Economy"

APPLICATION FOR PROGRAM APPROVAL: **NEW or SUBSTANTIAL CHANGE or LOCALLY APPROVED** (This application may not exceed 3 pages)

Advar	nced Arc-Semi-Automatic W		George Moreno			
PROPOSED PROGRAM TITLE Santa Ana College				CONTACT PERSON		
COLLEGE	Ana Conege		_Welding Technology Chair			
Rancho Santiago Community College District				714-564-6671		
DISTRICT			PHONE NUMBER			
<u> Fall 2</u>	013		moreno_george@sac.edu			
PROJECTED	PROGRAM START DATE		E-MAIL ADDRESS			
GOAL(S)	OF PROGRAM (CHECK ALL THAT APPL	.Y):				
⊠ CARE	☑CAREER TECHNICAL EDUCATION (CTE) ☐ TRANSFER			☐ OTHER		
REASON NEW SUBST	PROGRAM (CHECK ALL THAT APPLY): DEGREE A.S. DEGREE FOR APPROVAL REQUEST: (CHECK ON PROGRAM FANTIAL CHANGE LLY APPROVED	CERTIFICATE OF ACHIE	VEMENT:	 18+ semester (or 27+ quarter) units 12-18 semester (or 18-27 quarter) units 		
	Recommended Taxonomy of Program (TOP) Code		0956.50			
	Units for Major-Degree Total Units for Degree Required Units-Certificate		N/A N/A			
			24			

Insert the description of the program as it will appear in the catalog.

The certificate curriculum in welding technology is designed to provide advanced occupational training in Advanced Arc and Inert Gas Welding in common types of welding methods relating to the needs of today's welding fabrication industry. The program provides students with manipulative skills and technical knowledge required to operate oxyacetylene, shielded electric arc, MIG, TIG and semiautomatic flame cutting welding equipment. In addition, students will be prepared for certification as required by employment in the welding industry. Employment opportunities available are: welder, welder technician, and inspector, and maintenance welder, production welder in manufacturing, construction industries and shipbuilding. The Santa Ana College Welding Program is a Los Angeles Certified Testing Lab Facility. The program offers training and testing for the following certifications: SMAW, FCAW, TIG, MIG and PIPE.





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2. Provide a brief rationale for the program.

Santa Ana College has offered an AA degree in Welding and a Certificate of Achievement for a number of years, but not an Advanced Arc-Semi-Automatic Welding Certificate of Achievement. Over the past four years as enrollment increased and the department has increased in size, a number of students have expressed interest in an extra certificate of Achievement. Since we have the courses, staff and the facility to provide these courses, it is important to make available to the students these certificates.

In recent years, the welding industry, which is an essential part of the metal fabrication and construction industries, has had difficulties fulfilling their demand for skilled welders. With approximately 500,000 welders in the workforce, the average welder today is nearing retirement. With welders retiring at twice the pace of new welders coming into the field, it's only logical that we will have a significant shortfall of qualified welders.

To help in meeting the demand for the industry, Santa Ana College has provided our students with the latest in welding techniques and theory. Because students need to further their qualifications and there is a current lack of availability for this type of advanced certification, we find ourselves with the need to offer a program for an Advanced Arc-Semi-Automatic Welding Certificate of Achievement.

List all courses required for program completion, including core requirements, restricted electives and prerequisites.

COURSES	Course No.	Course Title	Units
Core Requirement	WELD 029B	Advanced Arc Welding Level II	3
Core Requirement	WELD 029C	Advanced Arc Welding Level III	3
Core Requirement	WELD 029D	Advanced Arc Welding Level IV	3
Core Requirement	WELD 039B	Inert Gas Welding Level II	3
Core Requirement	WELD 039C	Inert Gas Welding Level III	3
Core Requirement	WELD 040B	Welding Training Certification Level II	3
Core Requirement	WELD 040C	Welding Training Certification Level III	3
Core Requirement	WELD 041B	Welding Certification Exam Preparation Level II	3

4. Summarize the Labor Market outlook (including citation of the source of data) for students exiting the program.

According to the Labor Market Information of Estimated Employment and Projected Growth for the various types of employment available for welders, there are 18,730 projected openings in Los Angeles County and 7,570 projected openings in Orange County over a ten year period (2010-2020). The average number of combined yearly job openings for Los Angeles and Orange counties for the various types of employment available for welders is estimated to be 2630. While reviewing the Chancellor's Office Data Mart for historical completion rates for the community colleges in Los Angeles and Orange counties, the highest number of completions over the past five years for programs with a TOP code of 0956.50 Welding Technology was 131 (2012-2013). Therefore, 2630 minus 131 would still result in a Net Annual Labor Demand of 2499 jobs.





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Source: Employment Development Department, Labor Market Information Division http://www.labormarketinfo.edd.ca.gov/

5. List similar programs at other colleges in the Los Angeles and Orange County Region which may be adversely impacted. (complete the chart)

No other programs in our service area have an Advanced Arc-Semi-Automatic Welding Certificate program. Although there are a total of 10 community colleges in Los Angeles and Orange counties which offer Welding Technology programs, their emphasis is different. Our proposed certificate has all advanced curriculum (Level II-IV), whereas the other programs contain Introduction, Basic, Beginning, Elementary, or Fundamentals classes. Additionally, a major difference is that Santa Ana College has not had to reduce the amount of courses offered due to student demand.

College	Program	Who you contacted	Outcome of contact
N/A			
N/A			
N/A			

6. Include other information you would like to share.

The Santa Ana College Welding Program strives to meet the needs of our diverse students in preparation for employment. The program goals include supporting industry needs and providing students with multiple opportunities in the Welding Technology field. Students who complete the proposed certificate program can work in various positions. These positions include the following: inspectors, testers, sorters, and weighers; maintenance and repair workers; sheet metal workers; welders, cutters, solderers, and brazers; welding, soldering, and brazing machine workers; production and operating supervisors; and glaziers. This program emphasizes problem solving and communication, information and technology competency, as well as ethical and environmental responsibility in career training. Safety and lifelong learning are also stressed as critical components of a career in a constantly changing field. Associated with the college mission statement and the Santa Ana College Strategic Plan, emphasis is placed on student success and retention, access for all students including the disabled and disadvantaged, technology resources and use, diversity and student satisfaction.