

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

Fill In Form

Automated Laser Welding System
 Proposed Program Title

Fall 2017
 Projected Program Start Date

Santa Ana College
 College

Rancho Santiago Community College District
 District

Contact Information

Bart Hoffman
 Voting Member

Dean, Career Education and Workforce Development
 Title

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 Phone Number

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 Email

Goal(s) of Program (Check all that apply):

X Career Technical Education (CTE) Transfer Other

Type of Program (Check all that apply):

X Certificate of Achievement 12-17 (or 17-27 quarter) units Certificate of Achievement 18+ semester (or 27+ quarter) units
 X Associate of Science Degree Associate of Arts Degree

Reason for Approval Request (Check One):

X New Program Substantial Change Locally Approved

Program Information

0956.50 Recommended [Taxonomy of Program \(TOP\) Code](#)

18 (estimated) Units for Major-Degree

_____ Total Units for Degree

13 Required Units-Certificate

Written Form

1. Insert the description of the program as it will appear in the catalog. (See PCAH pp. 142 and 170)

The certificate curriculum in laser welding technology is designed to provide occupational training in automated laser welding. The program provides students with training in process validation and verification of laser welding; planning process validation and verification of laser welding; and executing process validation and verification of laser welding process. Students will also learn set up, programming and operation in automated laser systems. These classes are designed to meet both current and future needs in the laser welding industry. The program provides the students with the knowledge of the laser welding process. In addition, students will be prepared for certification as required by employment in the laser welding industry. Employment opportunities available are laser welder, robotic laser technician, inspector and production welder in manufacturing. The Santa Ana College

Welding Program is a Los Angeles Certified Testing Lab Facility.

2. Provide a brief rationale for the program.

Our Welding Advisory Committee members and the labor market within Los Angeles and Orange Counties have confirmed the need for trained technicians to work with laser welders, especially in the Medical Devices industry.

3. Summarize the Labor Market Information (LMI) and employment outlook (including citation for the source of the data) for students exiting the program. (See PCAH pp. 85-88, 136, 147, 148, 165, 168, and 176)

According to the Labor Market Information of Estimated Employment and Projected Growth for Welders, Cutters, Solderers and Brazers; Welding, Soldering and Brazing Machine Workers; and Inspectors, Testers, Sorters, and Weighers the average number of yearly job openings for Los Angeles and Orange counties is estimated to be 2084; 295; and 4378 respectively. Combined, this number becomes 6757 annually. According to the Chancellor's Office Data Mart, over the past 3 years, there were 477 completions at the community colleges in Los Angeles and Orange counties for programs with a TOP code of 0956.50 Welding Technology. The highest year was in 2015-2016 with 203 completions. Therefore 6757 minus 203 would result in a Net Annual Labor Demand of 6554 jobs.

<http://www.labormarketinfo.edd.ca.gov/>

4. List similar programs at other colleges in the Los Angeles and Orange County Region which may be adversely impacted. (There is space for 10 listings, if you need more, please contact laocrc@rscsd.edu)

College	Program	Who You Contacted	Outcome of Contact
Cerritos College	Welding Technology	Nick Real	_____
El Camino College	Welding	Virginia Rapp	_____
Fullerton College	Welding Technology	Doug Benoit	_____
Glendale Community College	Welding	Jan Swinton	Email--Supportive
Los Angeles Pierce College	Welding: Basic & Advanced	Alex Davis	_____
Los Angeles Trade Technical College	Welding	Alex Davis	_____
Mt. San Antonio College	Welder	Jemma Blake-Judd	_____
Orange Coast College	Welding Technology	Nancy Jones	_____
Pasadena City College	Welding	Rocco Cifone	Email--Supportive
Rio Hondo College	Welding Technology	Mike Slavich	_____
Long Beach City College	Welding Technology	Mollie Smith	_____

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5. List all courses required for program completion, including core requirements, restricted electives and prerequisites. (There is space for 20 listings, if you need more, please contact laocrc@rscsd.edu). (See PCAH pp. 143 and 171)

Courses	Course Number	Course Title	Units
Required	WELD 160	Introduction to Process Validation and Verification of Laser Welding Process: Level 1	3
Required	WELD 161	Planning Process Validation and Verification of Laser Welding Process: Level 2	3
Required	WELD 162	Executing Process Validation and Verification of Laser Welding Process: Level 3	3
Required	MNFG 120	Introduction to Medical Device Quality	2
Required	MNFG 121	Quality Control for Medical Devices	2
Total			13

6. Include any other information you would like to share.
 The degree option was selected because we anticipate expanding this program in the near future.