

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

Fill In Form Medical Device Quality Assurance Fall 2017 Proposed Program Title Projected Program Start Date Santa Ana College Rancho Santiago Community College District College District **Contact Information Bart Hoffman** Dean, Career Education and Workforce Development **Voting Member** Title 714-564-6800 hoffman_bart@sac.edu **Phone Number** Email Goal(s) of Program (Check all that apply): X Career Technical Education (CTE) Transfer Other Type of Program (Check all that apply): Certificate of Achievement 12-17 (or 17-27 quarter) units X Certificate of Achievement 18+ semester (or 27+ quarter) units Associate of Science Degree Associate of Arts Degree Reason for Approval Request (Check One): X New Program Substantial Change Locally Approved **Program Information** 0934.60 Recommended Taxonomy of Program (TOP) Code Units for Major-Degree Total Units for Degree 18 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)

A certificate in the Medical Device Quality Assurance program prepares students for prospective careers in the manufacturing, development, and/or design of medical devices, depending on work experiences and academic skillsets. Students will gain knowledge of FDA requirements for Good Manufacturing Practice (GMP) and Good Laboratory Practice (GLP) enhanced by experienced lecture materials, in-class workshops, presentation exercises, laboratory demonstrations, and exposure to other manufacturing technology disciplines. Students will have hands-on lessons to develop skills needed in the production or laboratory setting. Students will be prepared for entry level positions in medical device repairs and medical device preparations, such as Medical Device Assembler, Medical Device Inspector and Medical Equipment Repairer.



2.	Provide a	brief	rationale	for the	program.
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There is a lack of skilled employees in this area. We have heard this repeatedly from our Advisory Committee members as well as researching the labor market. Furthermore, there is much student interest in this program both from those first entering and upskilling.

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 Medical Equipment Repairers and Precision Instrument Repairers, the average number of yearly job openings for Los Angeles and Orange Counties for Medical Equipment Repairers is estimated to be 141 and for Precision Instrument Repairers is estimated to be 68. This results in 209 job openings annually. According to the Chancellor's Office DataMart, over the past 3 years, there were 47 completions at the community colleges in Los Angeles and Orange counties for programs with a TOP code of 0934.60 Biomedical Instrumentation. The highest year was in 2014-2015 with 18 completions. Therefore 209 minus 18 would result in a Net Annual Labor Demand of 191 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@rsccd.edu)

College	Program	Who You Contacted	Outcome of Contact
NOCCCD SCE	Quality Assurance	Steve Donley	EmailSupportive
	Management for Medical Devices		
LA Valley	Biomedical Equipment	Alex Davis	
	Technology		
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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@rsccd.edu). (See PCAH pp. 143 and 171)

Courses	Course Number	Course Title	Units
Required	MNFG 111	Basic Mechanical Blueprint Reading	2
Required	MNFG 153	Technical Mathematics	3
Required	MNFG 114	Geometric Dimensioning and Tolerancing	3
Required	MNFG 116	QC Operations with Verisurf Software	3
Required	MNFG 117	QC Operations with PC-DMIS CMM-1	3
Required	MNFG 120	Introduction to Medical Device Quality	2
Required	MNFG 121	Quality Control for Medical Devices	2
Total			18

6. Include any other information you would like to share.

Santa Ana College currently has many students taking CNC courses. These students can apply these skills to the Medical Devices area.