Santa Rosa Junior College New Program of Study Application Cover Page

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Proposed Program Title: Industrial Maintenance Technician	Submitter: MJ Papa
Program Type: Associate of Science Degree (at least 18 units)	
TOP Code :093400 Career Technical Education (CTE): Yes Total Program Ur	nits: 19.00
Summary of new program costs: Current Mechatronics lab facilities and faculthis new program. Any new equipment will be grant funded or purchased within budgets.	• 1
Why is this certificate/major needed: Within the Advanced Manufacturing in teach students cores and necessary skills in this field. Upon completion of this programme and construct mechanical assemblies from technical drawings using hand	gram, students will be able to

For CTE only, brief summary of labor market information: 219 annual openings between Sonoma and neighboring counties.

construct and test automated systems including electronic sensors, mechanical actuators and computer control; and demonstrate the ability to create PLCs and microcontroller programs and properly interface them to input and

Checklist of Attachments:

output devices.

All Applications:			
⊠ Recommended Course Sequence*			
For Programs in a Career Education TOP Code only, include the following attachments:			
☑ Advisory committee roster including: First names, last names, titles, companies and contact			
information			
☑ Advisory committee minutes where the advisory committee recommends the College create the			
proposed program			
☐ Bay Area Community College Consortium Recommendation and Labor Market Information,			
including job titles (not required for Skills Certificates)*			
For <u>Associate Degrees for Transfer</u> (based on State-Approved Transfer Model Curriculum) <u>only</u> :			
Only complete Items #1 & #2 in the Narrative section			
☐ Include Transfer Model Curriculum Template*			
☐ Attach applicable C-ID & ASSIST transfer documentation*			

After obtaining department chair & dean support, submit application to:

Adrienne Leihy, Curriculum Technician, aleihy@santarosa.edu

For Curriculum Office Use

After AAC recommendation:

⊠ EPCC ⊠ Majors & Certificate Review ⊠ BACCC

Final Approvals:

⊠ CRC ⊠ Board of Trustees ⊠ CCCCO

^{*}Can be obtained after AAC review. Curriculum office can also assist with this documentation.

Santa Rosa Junior College

Industrial Maintenance Technician, Associate of Science Degree (at least 18 units) Narrative Items 1-7

Item 1. Program Goals and Objectives

1. Statement of Program Goals and Objectives:

Upon completion of this program, students will be able to:

- 1. Identify and troubleshoot PLC program problems.
- 2. Operate and maintain AC and DC motors, generators and controllers.
- 3. Implement safety procedures in the workplace.
- 4. Understand safety codes and regulations applied to usage of industrial equipment and industrial working environment.
- 5. Test, align, and troubleshoot various complex electronic circuits.

Item 2. Catalog Description

The Industrial Maintenance Technician major prepares individuals for employment as electromechanical maintenance technicians in high tech manufacturing. Instruction is provided in the fundamentals of electronics, programmable logic controllers, rotating machinery, and mathematics.

Item 3. Program Requirements

R/RE	Course #	Title		Units	
R	ELEC 51A	Fundamentals of Electricity		3.00	
R	ELEC 54A	Direct and Alternating Current Theory		3.00	
R	ELEC 54B	Fundamentals of Electronic Devices		3.00	
R	ELEC 64A	Electronic Construction 1		2.00	
R	ELEC 153	Programmable Logic Controllers		3.00	
R	ELEC 154	Rotating Machinery		3.00	
Complete any combination totaling at least 2.00 units from the following:					
RE	DET 184	Mobile Hydraulics		3.00	
RE	MACH 51A	Beginning Machine Tool Technology		2.00	
RE	WEOC 99	Occupational Work Experience		.50-8.00	
RE	WEOC 99I	Occupational Work Experience Internship		.50-8.00	
RE	WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding		2.00	
			Total	19.00	

Item 4. Master Planning

This major provides the skills needed for students to obtain entry level jobs in the manufacturing industry, such as Electro-Mechanical Technicians, Industrial Engineering Technicians, and Manufacturing Production Technicians

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At Santa Rosa Junior College, faculty members with discipline expertise develop all certificates and majors. For AA-T and AS-T degrees, faculty members with appropriate expertise determine which courses align with the C-ID descriptors. The Supervising Administrator(s) then review the application to assure that it aligns with Chancellor's Office criteria for approval and SRJC guidelines for financial feasibility and community need. The Majors & Certificate Review Committee reviews the application and suggests any changes to assure than all guidelines have been observed. The item is then placed on the Curriculum Review Committee agenda for approval, and when approved, is submitted for approval by the Board of Trustees.

Item 5. Enrollment and Completer Projections

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Item 6. Place of Program in Curriculum/Similar Programs

This major shares coursework with the proposed certificate of the same title as well as the existing certificates: Industrial Maintenance Fundamentals and Electronic Technology Fundamentals.

Item 7. Similar Programs at Other Colleges in Service Area

College of Marin, over 40 miles away, offers three skills certificates in Electronics Technology. Napa Valley College, over 40 miles away, does not offer any similar programs.