

# RIVERSIDE COMMUNITY COLLEGE DISTRICT PROGRAM OUTLINE of RECORD

College: R\_\_\_ M\_\_\_ N X

## Supply Chain Technology

### PROGRAM PREREQUISITE:

None

### SHORT DESCRIPTION of PROGRAM

Supply Chain Technology is a rapidly-emerging discipline that supports the automated warehousing industry. This program provides students with the skills and hands-on training needed to install, operate, support, upgrade or maintain the software, hardware, automated equipment and systems that support the supply chain. This includes complex conveyer systems, robotics, sensors, optics, mechanical drive systems and programmable logic controllers. Upon completion, students are prepared to successfully enter the field as Electro-Mechanical Technicians, Automated System Technicians, Industrial Machinery Mechanics, or Supply Chain Technicians.

### PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students should be able to:

- Demonstrate troubleshooting procedures to diagnose and repair hydraulic and pneumatic systems used in automated processes and robotic assemblies.
- Discuss and demonstrate occupational safety and technical communications related to working in a distribution center.
- Demonstrate the installation, maintenance and troubleshooting of Programmable Logic Controllers systems (PLCs) and PLC modules.
- Establish a systematic approach to recognizing the essential information given on a blueprint.
- Solve arithmetic problems and formulas using unknowns that are typical to solving problems in engineering and industrial settings.

### Required Courses (31 units)

| Course        | Title                                 | Units |
|---------------|---------------------------------------|-------|
| SCT 1         | Introduction to Automated Warehousing | 3.0   |
| ELE 73/MAN 73 | Electric Motors for Electricians      | 4.0   |
| ELE 74/MAN 74 | Industrial Electrical Automation      | 4.0   |
| ENE 27/ELE 27 | Technical Communications              | 3.0   |
| ENE 51        | Blueprint Reading                     | 2.0   |
| ENE 60        | Math for Engineering Technology       | 3.0   |
| MAN 55        | OSHA Standards for General Industry   | 2.0   |
| MAN 60        | Hydraulic and Pneumatic Systems       | 3.0   |
| ELE 64/MAN 64 | Programmable Logic Controllers        | 3.0   |
| ELE 26        | Microprocessors/Microcontrollers      | 4.0   |
| Total         |                                       | 31.0  |