



## Career Fact Sheet



## Manufacturing Tools for the Career Counselor Riverside County

This data pertains to community college-level coursework and was prepared for Riverside Community College as a resource for counselors to share with students.

### Manufacturing Overview

Consumer demand for better products, more innovation in design, and new technologies drives the manufacturing industry. In recent years, the media has reported that US manufacturing jobs are being outsourced overseas, and this is true for the production of some products and lower-skill-level jobs. However, US manufacturing is still a very healthy industry, with job growth predicted through 2016.

### Manufacturing Defined

Manufacturing is the production of goods from components or raw materials. Advanced manufacturing refers to producing the most complex and high quality goods in an efficient and profitable way. While "assembly line" jobs still exist, many manufacturing jobs now focus on producing highly technical, premium quality goods using new technologies such as robotics, automated injection molding, and computerized precision designs.

## Manufacturing SmarTrax

AVAILABLE JOBS				
LOGISTICS JOB TITLE	SOC CODE	2009 MEDIAN HOURLY WAGE	NEW JOBS EXPECTED THROUGH 2016	% OVERALL INCREASE
Machine Operator	51-4011	\$16.08	260	19%
Machinists	51-4041	\$18.09	860	11%
Maintenance Technician	49-9042	\$18.44	1960	12%
Materials Handler	47-4041	\$19.65	140	6%
Tool & Die Maker	51-4111	\$23.62	110	9%
Mechanical Drafter	17-3013	\$25.92	140	8%
Production Technician	17-3029	\$29.94	420	16%
Project Engineer	17-2199	\$47.68	1130	11%

Source: US Department of Labor Career OneStop: [www.Careerinfonet.org](http://www.Careerinfonet.org) and the US Bureau of Labor Statistics: [www.bls.gov](http://www.bls.gov)

### Education and Training

Prepare for a career in Manufacturing Technology at the NorCo campus of Riverside Community College. The following programs are offered as onsite programs:

**Associate of Science Degree:** Automated Systems

**Associate of Science Degree:** Automated Systems Technician

**Associate of Science Degree:** Manufacturing Management

**Certificate:** Computer-Aided Production Technology

**Certificate:** Materials and Operations Management

For students who have completed coursework for an Associates Degree or Certificate, nationally recognized certifications or designations exist which may increase appeal to employers. The following are some recognized designations which can be obtained through industry organizations such as the American Society of Quality (ASQ) ([www.asq.org](http://www.asq.org)) or the Society of Manufacturing Engineers (SME) ([www.sme.org](http://www.sme.org)).

- Certified Manufacturing Technologist (CMfgT) Certification
- Certified Manufacturing Engineering (CMfgE) Certification
- Certified Production Technician (CPT)

### Skills Employers Need:

Employers value relevant work experience and a knowledge of mathematics and safety standards and procedures. Candidates for Manufacturing jobs also know how to:

- Communicate effectively both orally and in writing
- Use computers
- Visualize how an item will look when its parts are assembled or rearranged
- Identify problems and work independently or with others to identify solutions

### Career Options

New employees in Manufacturing typically begin at an operator level, moving into more technical roles after some experience. Advanced degrees and credentials increase chances for a move into management once analytical and technical skills are mastered.

