

LOS ANGELES TRADE-TECHNICAL COLLEGE

## **CAREER OPTIONS**



Auto Tool Maker • Robotics Technician • CNC/Mills Operator • Apprentice Machinist • CNC Programmer Machinist
 Manufacturing Lab Technician • CNC Lathe Operator

ANNUAL SALARY



\$37,000 - \$91,000

### **INDUSTRY CERTIFICATIONS**



Certified Manufacturing Technologist (CMfgT)

NIMS Certification

## **PROFESSIONAL ASSOCIATIONS**



Fabricators & Manufacturers Association, International (FMA)

International Society of Automation (ISA)

Manufacturing Institute

Manufacturing Skills Institute (MSI)

Society of Manufacturing Engineers (SME)

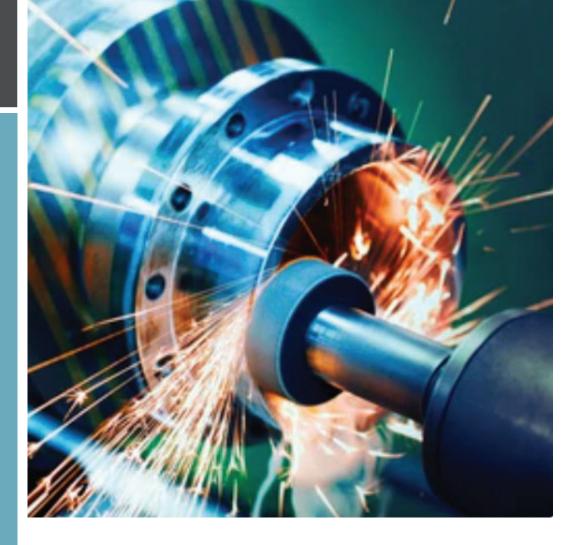
# **TOOLS & SUPPLIES**

Safety Glasses Uniform Shirt **Uniform Pants** \$15-40 \$30-200

Work Shoes/Boots (oil and slip resistant)

\$500-\$1,500

\$300



Los Angeles Trade-Technical College

# Machine Shop:

The Associate in Science degree and Certificate of Achievement, is designed for individuals seeking entry level positions in the field. Students enrolling in this program should be able to commit to fulltime student status, which is approximately 21 hours per week. This time commitment is necessary to allow for hands-on training in the lab applications used during the course of instruction.

By fulfilling the program requirements, students will have the necessary knowledge and skills for a career in the Machining Industry. Students will properly use related terminology, safely set-up and operate numerous conventional and computer numerically controlled (CNC) machine tools, use computers to program various CNC machines directly or with Computer Assisted Machinery (CAM), and interpret most related parts and assembly drawings.



To earn an Associate in Science degree students should complete the 45 units of Required Courses with a "C" or better in each course, and the general education courses under the GE Graduation Plan.

Requirements for the **Certificate of Achievement** may be met by completing 45 units of Required Courses with a "C" or better in each course.

# STUDENT SUPPORT

The ATM Pathway
Counselor can
assist you plan your
academic, transfer,
and career success
while connecting you
to essential resources.



Award	Required Courses	Major Electives	GE Graduation Plan
Associate of Science Degree	48 units		~18 units
Certificate	48 units		

### Required Courses O

Term	Subject	Course Title	Units
Semester I	MSCNC 111	Principles of Machine Tools I	2
	MSCNC 112A	Technology and Application of Machining IA	3
	MSCNC 112B	Technology and Application of Machining (CAD) IB	1
	MSCNC 114	Print Interpretation and Sketching (Blueprint I)	3
	MSCNC 115	Basic Applied Mathematical Calculations	3
Semester II	MSCNC 121	Principles of Machine Tools II	2
	MSCNC 122A	Technology and Application of Machining IIA	3
	MSCNC 122B	Technology and Application of Machining IIB	1
	MSCNC 124	Print Interpretation and Inspection (Blueprint II)	3
	MSCNC 125	Intermediate Applied Mathematical Calculations	3
Semester III	MSCNC 131A	Principles of Machine Tools IIIA	2
	MSCNC 131B	Principles of Machine Tools (CNC) IIIB	3
	MSCNC 132A	Technology and Application of Machining IIIA	3
	MSCNC 132B	Technology and Application of Machining (CAM) IIIB 1	1
	MSCNC 135	Advanced Applied Mathematical Calculations	3
Semester IV	MSCNC 141	Principles of Machine Tools (CNC) IV	2
	MSCNC 142A	Technology and Application of Machining IVA	3
	MSCNC 142B	Technology and Application of Machining IVB	1
	MSCNC 161A	Computer Assisted Machine Programming (CAM) IA	3
	MSCNC 161B	Computer Assisted Machine Programming (CAM) IB	3

#### GE Graduation Plan Courses O

Meet with the ATM Pathway Counselor to select **Guided Choices** sequence of courses or other GE courses

	Units
Guided Choices	~18

Area A: Electronics 002
Area B1: History 12
Area C: Humanities 60
Area D1: English 101
Area D2: Mathematics 227

Los Angeles Trade Technical College

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