

CAREER OPTIONS



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

ANNUAL SALARY



Entry level to experience

\$29,000 - \$99,000

INDUSTRY CERTIFICATIONS



Certified Manufacturing Technologist (CMfgT)

NIMS Certification

PROFESSIONAL ASSOCIATIONS



Fabricators & Manufacturers Association, International (FMA)

International Society of Automation (ISA)

Manufacturing Institute

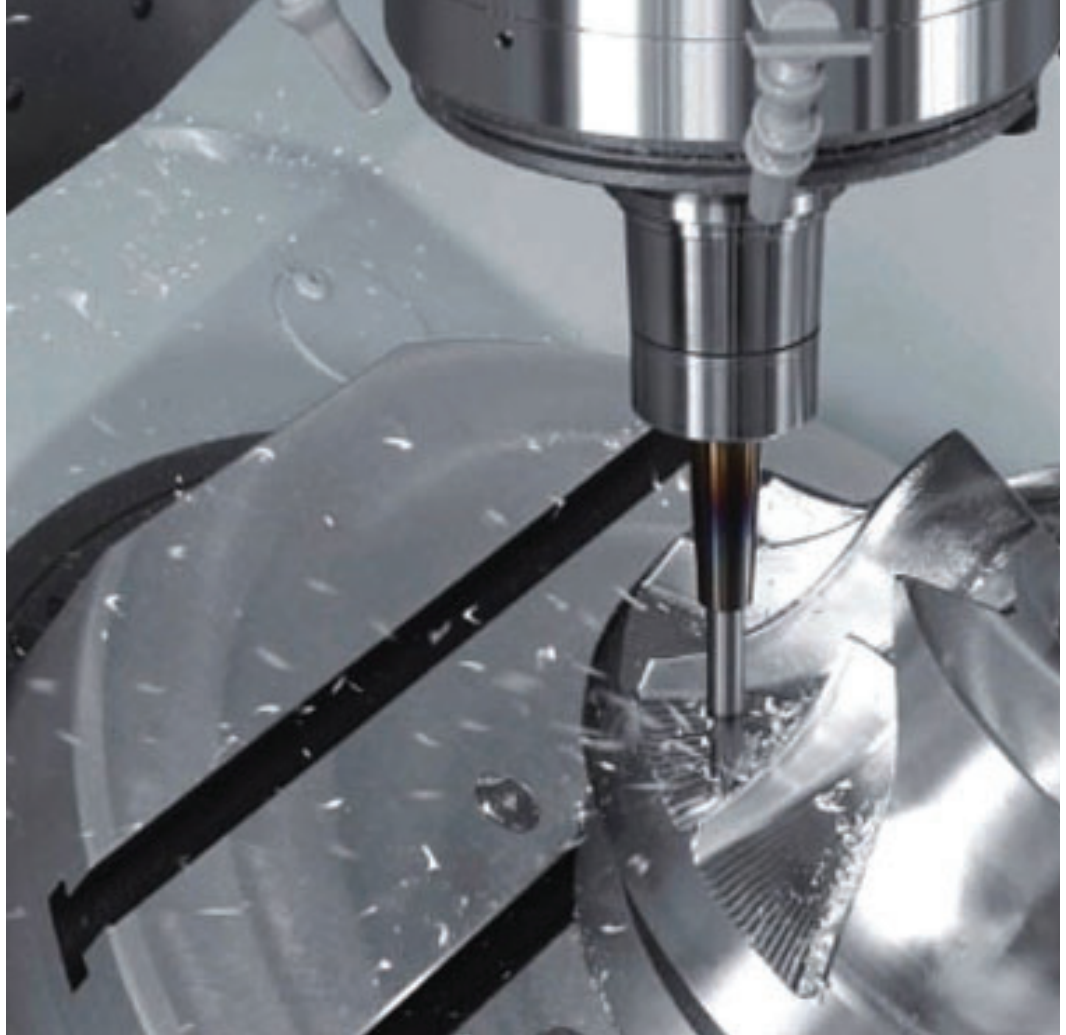
Manufacturing Skills Institute (MSI)

Society of Manufacturing Engineers (SME)

estimated cost of TOOLS & SUPPLIES



Safety Glasses	\$1-45
Uniform Shirt	\$25-45
Uniform Pants	\$15-30
Work Shoes/Boots (oil and slip resistant)	\$30-200
Tools	\$500-\$1,500
Textbooks	\$300



Los Angeles Trade-Technical College

Machine Shop: CNC

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 full-time 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.



Degree and Certificate

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.



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

Required Courses ○●

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 ○

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

	Units
Guided Choices	~18
Area A: Physics 11	
Area B: History 12	
Area C: Humanities 60	
Area D1: English 101	
Area D2: Mathematics 125	
Area E:	

STUDENT SUPPORT

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

Los Angeles Trade Technical College

School of Advanced Transportation & Manufacturing (ATM)

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