

MANUFACTURING JOB OF THE MOMENT... AND BEYOND

THE NEED FOR MAINTENANCE TECHNICIANS

IS GROWING.

79% of Manufacturing Managers state that manufacturing technologies are increasingly becoming computer-based (per a 2012 Manpower survey).

The growing need for technology creates demand for an occupation in manufacturing — **THE MAINTENANCE TECHNICIAN** — and specialization within the occupation.

MAINTENANCE TECHNICIANS ARE IN DEMAND!

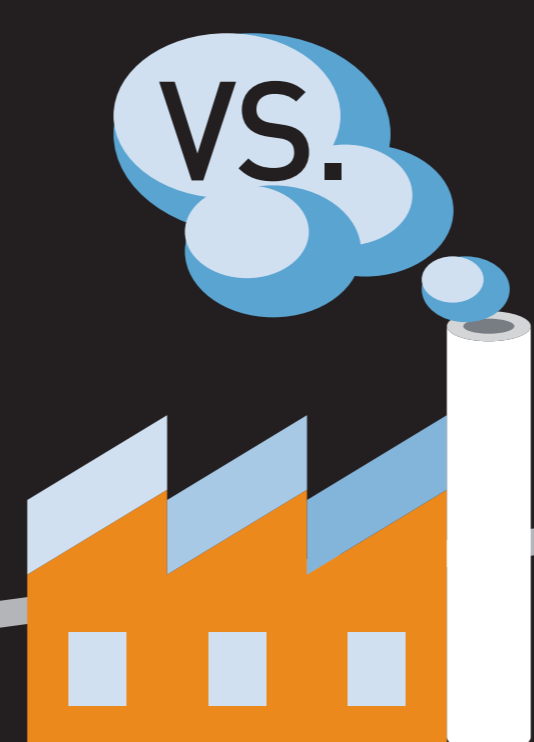
SUPPLY

8,702

VS.

DEMAND

15,141



WHAT DOES IT TAKE TO BECOME A MAINTENANCE TECHNICIAN?

AVERAGE MAINTENANCE TECHNICIAN EDUCATION LEVEL



HIGH SCHOOL

55%

ASSOCIATE'S DEGREE

29%

BACHELOR'S DEGREE

12%

MASTER'S DEGREE

3%

DOCTORATE

<1%



SKILLS REQUIRED

1. TROUBLESHOOTING
2. SALES AND OPERATIONS PLANNING
3. PREVENTATIVE MAINTENANCE INSPECTIONS
4. PREVENTATIVE MAINTENANCE
5. MICROMETERS



CERTIFICATION REQUIRED

1. OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA)
2. COMPUTER AIDED DESIGN (CAD)
3. NATIONAL ELECTRICAL CODE (NEC)
4. FORKLIFT CERTIFICATION
5. MATERIAL HANDLING EQUIPMENT (MHE)



TOP AREAS LOOKING FOR MAINTENANCE TECHNICIANS*

1. CHICAGO, IL
2. HOUSTON, TX
3. CLEVELAND/AKRON, OH
4. GREATER DETROIT
5. GREATER ATLANTA



*Over the last 2 years

AVERAGE NATIONAL SALARY RANGE

\$37K

\$45K

THE 4 FUTURE MANUFACTURING TECHNOLOGIES AND THE REQUIREMENTS MAINTENANCE TECHNICIANS WILL NEED TO WORK WITH THEM

JOB OVERVIEW

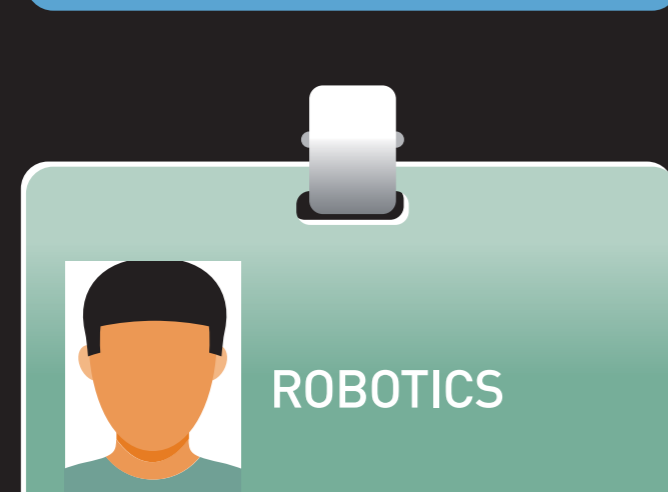
EDUCATION



Control the motion of routers, drills, milling machines, turning centers and automatic welding machines using computer/digital numerical control devices.

REQUIRED: CNC programming education (offered in technical schools).

PREFERRED: A background in CAD tools (computer-aided design).

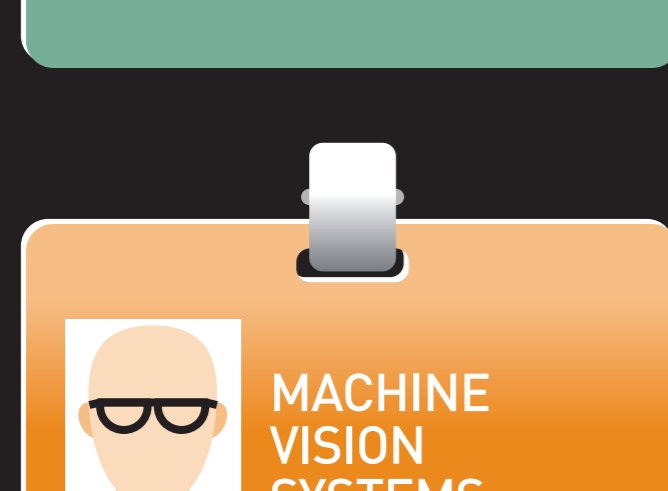


Robot use to expand from highly repetitive actions to collaboration with humans.

REQUIRED: CNC programming education (offered in technical schools).

To program and maintain robots.

PREFERRED: Specialized robotics training.



These machines sort, conduct material handling and guide robot movement and grasping.

REQUIRED: CNC programming education (offered in technical schools).

To program and configure Machine Vision Systems.



A new manufacturing machine which adds material in layers to create a desired 3D product.

REQUIRED: CNC programming education (offered in technical schools).

Troubleshoot, program and maintain 3D printing machines.

PREFERRED: A background in CAD tools (computer-aided design). Other specialized training may be required.

SOURCES

1. Career Builder
2. The Future of the Manufacturing Workforce, by Thomas H. Davenport
3. Wanted Analytics



Manpower