Find your path at John Wood

Manufacturing Technology

It's where the high-paying jobs are if you have the right skills, training and education. In the next two years, 1,000 positions in JWCC's district will need to be filled by individuals with new technical skills in the manufacturing industry.

Like?

Technology

Gadgets
robots, electronics

Building &
Designing Things

Problem Solving
& Math

Motors/
Metalworking

Learn to

Use computer software to design products

Build and program

Make a product model on a 3D printer

Improve how products are made

Run automated machines that turn raw materials into products

Average Annual Earnings

$49,980 ($24/hour)

Source: Bureau of Labor Statistics

Potential Careers

Draftsman, Computer Numeric Control Machine Operator, Certified Production Technician

Classes in...

Safety, technical math, precision machining, blueprint reading, introduction to computer-aided design, 3D applications, processes and productions, quality/continuous improvement.

Type of Work

Hands-on work with a team and on your own in a clean, fast-paced work environment programming and operating 3D printers and high-tech machines. Design products using computer software. Problem solve to improve processes, parts and machine operation.

JWCC Stackable Certificates or Degrees

Tackle one certificate at a time.

	6 classes (3 mos.)	=	Certified Production Technician Certificate
+	**1 class**	=	Precision Machining Operator Certificate
+	**5 classes**	=	Precision Machining Machinist Certificate
+	**9-11 classes**	=	Manufacturing Technology Associate in Applied Science

Transfer Credits to:

Northern Illinois University

Western Illinois University

Missouri Western State University

Northern Illinois University

Grads get jobs at:

GD Gardner Denver

TITAN

Blessing Hospital

Manchester Tank

Team Penske

Gainful Employment info: jwcc.edu/gainfulemployment

John Wood Community College · Founded 1974

jwcc.edu/manufacturing-technology

217.641.4337

admissions@jwcc.edu

Manufacturing Technology Degree

REQUIRED CORE COURSES

Course	Description	Credit Hours
CAD 230	Intro to Mfg Processes	3
FYE 101	Blazing Your Trail	1
MAT 100	Technical Math	3
MFG 103	Intro to Manufacturing Maint	2
MFG 104	Quality/Continuous Improv	3
MFG 113	Intro to Mfg/Industrial Safety	3
		15

REQUIRED GENERAL EDUCATION COURSES

Humanities/Fine Arts Requirement		3
Oral Communication Requirement		3
Social/Behav Sciences Requirement		3
Written Communication Requirement		3
		12

COMPLETE COURSES FROM 2 OF THE SPECIALIZED AREAS BELOW:

Diesel Technology

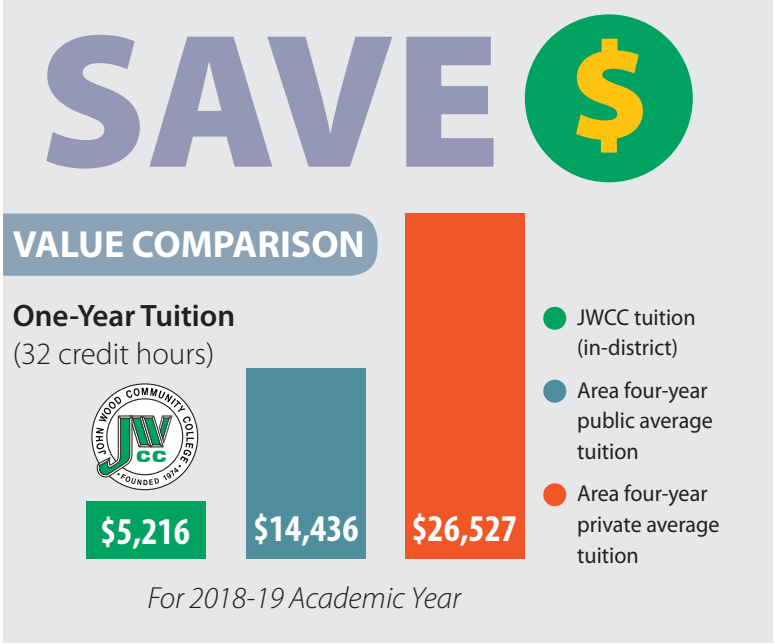
DET 101	Diesel Technology	8
DET 102	Diesel Technology	8
ELE 110	Introduction to Electricity	3
IMT 150	Fluid Power I (Hydraulics)	3
IMT 155	Fluid Power II (Pneumatics)	2
WLD 180	Thermal Cutting	2
		26

Engineering Design-SolidWorks

CAD 101	Intro to Dft & Blueprint Reading for CAD	3
ELE 135	Programmable Controls	3
CAD 104	Intro to CAD	3
CAD 114	Intro to Parametric Modeling	3
CAD 204	3D Applications	3
CAD 214	Adv 3D Applications	3
		15

Industrial Maintenance

ELE 110	Intro to Electricity	3
ELE 135	Programmable Controls	3
IMT 110	Industrial Wiring	2
IMT 120	Industrial Motors & Controls	3
IMT 140	Pumps/Piping	2
IMT 150	Fluid I (Hydraulics)	3
IMT 155	Fluid II (Pneumatics)	2
IMT 200	Mechanical Systems	3
		21



Precision Machining

CAD 101	Intro to Dft & Blueprint Reading for CAD	3
MFG 106	CNC Turning	3
MFG 111	CNC Milling	4
MFG 135	Precision Machining I	3
MFG 235	Precision Machining II	3
MFG 250	Metallurgy	3
		19

Welding

WLD 122	Flux Core Inner Shield	1
WLD 123	Flux Core Dual Shield	1
WLD 124	Welding Spray Transfer	1
WLD 125	Stick Welding I	3
WLD 161	Interpreting Welding Prints	3
WLD 180	Thermal Cutting	2
		11

- After completing the required core courses, the required general education courses, and courses from two of the specialized areas above, if the minimum of 64 credit hours has not been met, a student must take additional approved technical electives to reach the 64 credit hour minimum requirement.
- pproved technical electives consist of all courses with one of the following prefixes:DET, ELE, MFG, CAD, LOM or WLD.
- While working towards the Manufacturing Technology AAS degree, a student has the opportunity to earn multiple program certificates along the way.

jwcc.edu/manufacturing-technology

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