

Industrial Maintenance Technician, CTS

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Executive Director

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The Industrial Maintenance Technology program prepares individuals to install, repair, and maintain industrial machinery and equipment such as pumps, motors, pneumatic and hydraulic systems, and production machinery. It includes instruction in testing, adjusting, and repairing pneumatic and hydraulic systems, attaching supplemental equipment such as hoses, valves, gates, mechanical, electrical, and electronic control devices. The general knowledge usually required in industrial maintenance is an understanding of reading mechanical schematics, mechanical applications, electric motor applications, pump systems, and safety. The correct tools and the comprehension of how to use them can be crucial for fixing potential machinery problems. Accurately reading schematic blueprints enables the technician to understand how a particular machine works. Safety is also a pivotal aspect of industrial maintenance.

PROGRAM ADMISSION: Courses with a prefix of MANF require students to **be eligible for** ENGL 072, MATH 113, and READ 101. Completion of these courses is not required.

CAMPUS: DCC Jefferson

CAREERS: With industrial manufacturing and other highly technological companies entering our region and the expansions of many other existing companies, the need for industrial maintenance mechanics has never been greater. Increased use of manufacturing machinery will require more industrial mechanics and maintenance technicians to keep the machines in good working order. The average salary of an industrial maintenance technician in Louisiana is \$23.49 per hour or \$48,862 per year (LA Workforce Commission, Occupational Wage Data, 2014).

CURRICULA: 33 credit hours; 3 semesters

Semester 1

ELEC 112 Basic Electricity 4 credits

MANF 211 Industrial Maintenance Mechanic I 3 credits
Co-Requisite: TECH 101

MANF 215 Applied Pneumatic Technology 3 credits

***TECH 101** NCCER Technical Core 3 credits

Semester 2

MANF 216 Applied Hydraulic Technology 3 credits

MANF 217 Mechanical Drives & Alignment 3 credits

MANF 218 Fluid Piping Systems 3 credits

Semester 3

MANF 212 Industrial Maintenance Mechanic II 5 credits
Pre-Requisite: MANF 211

MANF 219 Applied Pump Systems 3 credits

MANF 220 Process Control Systems 3 credits