

INDUSTRIAL MAINTENANCE TECHNOLOGY

MISSION

The Industrial Maintenance Technology department (INT) at Reid State Technical College provides quality academic and technical education to students from diverse backgrounds and abilities. The INT department promotes economic growth by preparing a qualified workforce for the industrial maintenance industry.

PROGRAM PURPOSE

The purpose of the Industrial Maintenance Technology program is to provide accessible, premium quality educational opportunities that will provide individuals with the knowledge, technical skills, values, and attitudes necessary to obtain entry-level employment in the business and industry sectors seeking industrial maintenance employees. Industrial Maintenance prepares students with the skills demanded for multi-craft positions. The program is designed to provide detailed knowledge of several technical subjects and prepare students that apply this knowledge in the industrial environment to preserve and maintain industrial systems. Providing an available labor pool to industry in Region 7 is a priority.

Program completers are to be competent in the technical areas of electronics circuit repair, industrial electrical wiring, industrial motor controls, hydraulics and pneumatics, measurements, and technical drawing. Reid State Technical College will accomplish program objectives by providing students with a comprehensive general education and technical training in the core area of industrial maintenance. The occupational skill preparation should meet recognized skill standards. The college will ensure program quality through internal certification of graduate competencies. The philosophy and purpose of the Industrial Maintenance Technology program is consistent with that of the governing institution.

EMPLOYMENT OUTLOOK

Alabama's Region 7's workforce occupations expected to grow through 2019 includes occupations requiring industrial maintenance skills. Installation, maintenance, and repair occupations are listed as occupations with anticipated openings

Region 7 projects job growth to exceed population and labor force growth through 2024. The Industrial Maintenance Technician I course was developed to assist dislocated workers in preparing for future growth in Region 7. Industrial Maintenance technicians are needed to meet employer demands of Region 7 as manufacturing is a key employer in the region. Industrial Maintenance, and Repair Occupations in 2014 in the state of Alabama was 98,450 jobs and in 2024 is expected to be 106,620 jobs. That is 3,180 total openings with 2,305 jobs coming in replacement and 875 new jobs due to growth. The starting wage Entry level is \$13.19 per hour with experienced wages at \$26.92 with experienced annual wage being \$55,989.

PROGRAM OUTCOME OBJECTIVES

1. Program graduates will be proficient with skills for industrial maintenance positions
2. Program graduates will be technically proficient
3. Program graduates will be successfully employed in the field
4. Employers of program graduates will be satisfied with their education and training

ADMISSION REQUIREMENTS

Applicants to this program must complete the application procedures and be 16 years of age. Additionally, applicants must present official documentation of a high school diploma, in accordance with State Board policy, or GED.

PROGRAM COSTS

Industrial Maintenance Technology (short-certificate) 29 Semester Credit Hours 2 Semesters

Costs for required textbooks, tools, and supplies for this program are approximately:

Tuition \$119 per credit hour * 29 credit hours	\$3,451.00
Insurance \$ 5.12 per semester *2 semesters	\$ 10.24
All Fees \$ 31.00 per credit hour *29 credit hours	\$ 889.00
 Diploma Fee	 <u>\$ 15.00</u>
 Total Fees	 \$4,375.24

Required Tools/Supplies

Industrial Electricity/Electronics Technology:

Scientific calculator, Safety Glasses
*Note: these items are required

Total Tools/Supplies \$ 475.00

Required Books

Total Books \$2,500.00

Estimated Total Amount \$7,350.24

INDUSTRIAL MAINTENANCE TECHNOLOGY - SHORT CERTIFICATE

MINIMUM CREDITS REQUIRED: 29 Semester Credit hours

Length of Program: 2 Semester of full-time attendance

GENERAL EDUCATION CORE: 1 Semester Credit Hours

	Theory	Lab	Contact	Credit
ORT100 Orientation	1	0	1	1

TECHNICAL CONCENTRATION: 28 Semester Credit Hours

INT101 DC Fundamentals	2	1	5	3
INT103 AC Fundamentals	2	1	5	3
INT113 Industrial Motor Controls I	1	2	7	3
INT118 Fundamentals of Industrial Hydraulics and Pneumatics	2	1	5	3
INT184 Introduction to Programmable Logic Controllers	2	1	5	3
INT213 Industrial Motor Control II	1	2	7	3
INT218 Special Lab in Hydraulics and Pneumatics	0	2	6	2
INT284 Advanced Programmable Logic Controllers	2	1	5	3
ILT105 Industrial Instrumentation Lab	0	2	6	2
INT222 Special Topics	0	3	9	3

Electives:

ILT194 Introduction to Programmable Logic Controllers	2	1	5	3
ILT196 Advanced Programmable Logic Controllers	2	1	5	3
WKO110 NCCER CORE	1	2	5	3