



INDUSTRIAL MAINTENANCE

Technical Certificate: Industrial Technology 36-37 Credits

Technical Certificate: Industrial Electricity 33 Credits

Certificates of Proficiency: 8-20 Credits Each

GRADE	DEVELOPMENTAL COURSES (if needed)	HOURS
	GSTD0103 College Reading	3
	GSTD0243 Essential English	3
	GSTD0201 Composition I Lab	1

GRADE	TECHNICAL CERTIFICATES	HOURS
Industrial Technology – 36-37 Credits		
	ENGL1113 Composition I	3
	BUS1003 Microcomputer Applications	3
	MATH1003 Technical Math (or higher)	3
	MAIN1204 Industrial Fundamentals	4
	MAIN1504 Basic Electricity	4
	MAIN1004 Mechanical Devices I	4
	MAIN2004 Mechanical Devices II	4
	MAIN1104 Hydraulics/Pneumatics	4
	MAIN2204/WELD2344/2354/2367/2377	7-8
Industrial Electricity – 33 Credits		
	ENGL1113 Composition I	3
	BUS1003 Microcomputer Applications	3
	MATH1003 Technical Math (or higher)	3
	MAIN1204 Industrial Fundamentals	4
	MAIN1504 Basic Electricity	4
	MAIN1404 Industrial Motor Controls	4
	MAIN1304 Programmable Logic Controls (PLC's)	4
	MAIN2404 Industrial Wiring w/NEC	4
	MAIN2604 Advanced PLC's w/Instrumentation	4

GRADE	CERTIFICATES OF PROFICIENCY	HOURS
Hydraulics/Pneumatics – 8 Credits		
	MAIN1204 Industrial Fundamentals	4
	MAIN1104 Hydraulics/Pneumatics	4
Industrial Motor Controls – 12 Credits		
	MAIN1204 Industrial Fundamentals	4
	MAIN1504 Basic Electricity	4
	MAIN1404 Industrial Motor Controls	4
Mechanical Devices – 12 Credits		
	MAIN1204 Industrial Fundamentals	4
	MAIN1004/MAIN2004/MAIN2204	8
Programmable Controls – 20 Credits		
	MAIN1204 Industrial Fundamentals	4
	MAIN1504 Basic Electricity	4
	MAIN1404 Industrial Motor Controls	4
	MAIN1304 Programmable Logic Controls (PLC's)	4
	MAIN2604 Advanced PLC's w/Instrumentation	4

PROGRAM INFORMATION: Industrial Maintenance students have the option of choosing courses that best meet their needs. Stackable Certificates of Proficiency in Mechanical Devices, Fluid Power (Hydraulics/Pneumatics), Industrial Motor Controls, Programmable Controls, and Welding will lead to the Industrial Technology credential and all hours will apply toward the Associate of Applied Science in General Technology. The Technical Certificate in Industrial Electricity provides training in a broad range of skillsets beginning with basic electricity advancing through the more complex skillsets required in programmable logic controllers (PLCs).

Certificates of Proficiency provides students with both the skills needed in each particular area of industrial maintenance and the soft skills needed to acquire a job, maintain a job, and work safely in an industrial setting. Introduction to blueprint reading and applied mathematics are also covered in the coursework for each of these certificates.

CAREER OPTIONS: Industrial Technology provides students with the skills needed to perform general duties required in entry level maintenance or production jobs with greatly increased employment opportunity. The skillsets learned in the Industrial Electricity may be applied toward a career in industrial electricity or in support of a multi-craft degree.