

INDUSTRIAL MAINTENANCE

2022-2023 DEGREE PLAN

Technical Certificate: Industrial Technology 37 Credits

Technical Certificate: Industrial Electricity 33 Credits

Certificates of Proficiency: 12-20 Credits Each

TERM	TECHNICAL CERTIFICATES	HOURS
Industrial Technology – 34 Credits		
	TECH1113 Workplace Writing (or higher)	3
	TECH1003 Technical Math (or higher)	3
	TECH1203 Technical Success Strategies	3
	TECH1204 Technical Fundamentals	4
	MAIN1504 Basic Electricity	4
	MAIN1004 Mechanical Devices I	4
	MAIN2004 Mechanical Devices II	4
	MAIN1104 Hydraulics/Pneumatics	4
	WELD2344 Welding I SMAW	4
	WELD2354 Welding II SMAW	4
Industrial Electricity – 30 Credits		
	TECH1113 Workplace Writing (or higher)	3
	TECH1003 Technical Math (or higher)	3
	TECH1203 Technical Success Strategies	3
	TECH1204 Technical Fundamentals	4
	MAIN1504 Basic Electricity	4
	MAIN1404 Industrial Motor Controls	4
	MAIN1304 Programmable Logic Controls (PLC's) I	4
	MAIN2404 Industrial Wiring w/NEC	4
	MAIN2604 Programmable Logic Controls (PLCs) w/ Instrumentation II	4

TERM	CERTIFICATES OF PROFICIENCY	HOURS
Hydraulics/Pneumatics – 12 Credits		
	TECH1204 Technical Fundamentals	4
	MAIN1104 Hydraulics/Pneumatics	4
	MAIN1004 Mechanical Devices I –OR- MAIN2004 Mechanical Devices II	4
Industrial Motor Controls – 12 Credits		
	TECH1204 Technical Fundamentals	4
	MAIN1504 Basic Electricity	4
	MAIN1404 Industrial Motor Controls	4
Mechanical Devices – 12 Credits		
	TECH1204 Technical Fundamentals	4
	MAIN1004 Mechanical Devices I	4
	MAIN2004 Mechanical Devices II	4
Programmable Controls – 20 Credits		
	TECH1204 Technical Fundamentals	4
	MAIN1504 Basic Electricity	4
	MAIN1404 Industrial Motor Controls	4
	MAIN1304 Programmable Logic Controls (PLC's) I	4
	MAIN2604 Programmable Logic Controls (PLCs) w/ Instrumentation II	4

Score Requirements			
Subject	Next Gen	ACT	Accuplacer
Reading	253	19	88
Writing	260	19	71
Math	240	17	30

Technical Math TECH1003 has a pre-requisite requirement of the appropriate reading score or a co-req of the Workplace Writing course.

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.