

GENERAL TECHNOLOGY INDUSTRIAL MAINTENANCE PATHWAY

2024-25 DEGREE PLAN Associate of Applied Science: 60 Credits

REQUIRED ACADEMIC CORE		
	TECH 12074 Technical Success Strategies	4
	TECH 11163 Workplace Writing (or higher)	3
	MATH 10103 Technical Math (or higher)	3
	CPSI 10003 Microcomputer Applications	3
	Choose 1: ECON/HIST/PLSC/PSYC/SOCI/SPAN	3
Academic Core Requirements		16

INDUSTRIAL MAINTENANCE REQUIREMENTS		
	TECH 12064 Technical Fundamentals	4
	AMST 14004 Basic Electricity	4
	AMST 11004 Hydraulics/Pneumatics	4
	AMST 10004 Mechanical Devices/Systems I	4
	AMST 20004 Mechanical Devices/Systems II	4
	AMST 14004 Industrial Motor Controls	4
	AMST 13004 Programmable Logic Controls (PLCs)I	4
	AMST 24004 Industrial Wiring w/NEC	4
	AMST 26004 Programmable Logic Controls (PLCs) with Instrumentation II	4
	WELD 23464 Welding I – SMAW I	4
	WELD 23564 Welding II – SMAW II	4
Industrial Maintenance Requirements		44

Certificate of Proficiency: Hydraulics/Pneumatics		
	TECH 12064 Technical Fundamentals	4
	AMST 11004 Hydraulics/Pneumatics	4
	AMST 10004 Mechanical Devices I –OR- AMST 20004 Mechanical Devices II	4

Certificate of Proficiency: Mechanical Devices		
	TECH 12064 Technical Fundamentals	4
	AMST 10004 Mechanical Devices/Systems I	4
	AMST 20004 Mechanical Devices/Systems II	4

Certificate of Proficiency: SMAW Welding		
	TECH 12064 Technical Fundamentals	4
	WELD 23464 Welding I – SMAW I	4
	WELD 23564 Welding II – SMAW II	4

Technical Certificate: Industrial Technology		
	TECH 12074 Technical Success Strategies	4
	TECH 11163 Workplace Writing (or higher)	3
	MATH 10103 Technical Math (or higher)	3
	TECH 12064 Technical Fundamentals	4
	AMST 14004 Basic Electricity	4
	AMST 11004 Hydraulics/Pneumatics	4
	AMST 10004 Mechanical Devices/Systems I	4
	AMST 20004 Mechanical Devices/Systems II	4
	WELD 23464 Welding I – SMAW I	4
	WELD 23564 Welding II – SMAW II	4

Technical Certificate: Industrial Electricity		
	TECH 12074 Technical Success Strategies	4
	TECH 11163 Workplace Writing (or higher)	3
	MATH 10103 Technical Math (or higher)	3
	TECH 12064 Technical Fundamentals	4
	AMST 14004 Basic Electricity	4
	AMST 14004 Industrial Motor Controls	4
	AMST 13004 Programmable Logic Controls (PLCs)I	4
	AMST 24004 Industrial Wiring w/NEC	4
	AMST 26004 Programmable Logic Controls (PLCs) with Instrumentation II	4

Certificate of Proficiency: Industrial Motor Controls		
	TECH 12064 Technical Fundamentals	4
	AMST 14004 Basic Electricity	4
	AMST 14004 Industrial Motor Controls	4

Certificate of Proficiency: Programmable Controls		
	TECH 12064 Technical Fundamentals	4
	AMST 14004 Basic Electricity	4
	AMST 14004 Industrial Motor Controls	4
	AMST 13004 Programmable Logic Controls (PLCs)I	4
	AMST 26004 Programmable Logic Controls (PLCs) with Instrumentation II	4

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Eligible for ARFuture Grant [ADHE Scholarship Application Management System - Scholarship - ARFUTURE](#)

PROGRAM INFORMATION: This degree was co-designed with local manufacturers to ensure the curriculum is relevant and up to date. While in the program, students will earn stackable credentials; Certificates of Proficiency in Mechanical Devices, Hydraulics and Pneumatics, Industrial Motor Controls, Programmable Controls, and Welding will lead to Technical Certificates in Industrial Technology and Industrial Electricity. All hours will apply toward the Associate of Applied Science in General Technology degree. Students will gain the skills needed to perform duties required in industrial maintenance settings. After the successful completion of the Industrial Fundamentals course, which follows the NCCER curriculum, students will have the opportunity to earn a nationally recognized industry certification.

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 certificate may be applied toward a career in industrial electricity or in support of a multi-craft degree.