

INDUSTRIAL MAINTENANCE/MILLWRIGHT

Associate in Applied Science Degree – AAS IE1

Program Locations: Thomasville Campus and The Fairhope Academy Airport

Length: Four Semesters

The Industrial Maintenance/Millwright Technology program is designed to help students exit the program with hands-on skills and knowledge recognized by industry partners as the key competencies to succeed in the field of industrial maintenance and/or millwright positions.

This is a career program designed for students to go directly into the labor market upon completion. Although some of the courses in this program will transfer to four-year institutions, this program is not designed to be a transfer program of study; therefore, it is not subject to the terms and conditions of Alabama Transfers state transfer and articulation reporting system.

AREA I: Written Composition		3 Total Hours
ENG 101 – English Composition I		3
AREA II: Humanities and Fine Arts		3 Total Hours
Humanities and Fine Arts Elective: Choose one of the following		3
ART 100 – Art Appreciation	PHL 206 – Ethics and Society	
ART 203 – Art History I	REL 100 – History of World Religions	
ART 204 – Art History II	REL 151 – Survey of the Old Testament	
HUM 101 – Introduction to Humanities I	REL 152 – Survey of the New Testament	
HUM 102 – Introduction to Humanities II	THR 120 – Theater Appreciation	
MUS 101 – Music Appreciation	THR 126 – Introduction to Theater	
PHL 106 – Introduction to Philosophy		
AREA III: Natural Sciences and Mathematics		6 Total Hours
CIS 146 – Microcomputer Applications		3
Choose one of the following:		3
MTH 100 – Intermediate College Algebra		
MTH 116 – Mathematical Applications		
AREA IV: History, Social, and Behavioral Sciences		3 Total Hours
Choose one of the following:		3
ECO 231 – Principles of Macroeconomics	HIS 202 – United States History II	
ECO 232 – Principles of Microeconomics	POL 200 – Introduction to Political Science	
GEO 100 – World Regional Geography	POL 211 – American National Government	
HIS 101 – Western Civilization I	PSY 200 – General Psychology	
HIS 102 – Western Civilization II	PSY 210 – Human Growth and Development	
HIS 121 – World History I	SOC 200 – Introduction to Sociology	
HIS 122 – World History II	SOC 210 – Social Problems	
HIS 201 – United States History I	SPH 116 – Introduction to Interpersonal Communications	

AREA V: Pre-Professional, Major, and Elective Courses		46 Total Hours
IET 114 – Basic Electricity		3
IET 131 – Fluid Power Systems		3
ILT 108 – Introduction to Instruments and Process Control		3
INT 106 – Elements of Industrial Mechanics		3
INT 117 – Principles of Industrial Mechanics		3
INT 127 – Principles of Industrial Pumps and Piping Systems		3
INT 132 – Preventative and Predictive Maintenance		3
INT 153 – Precision Machining Fundamentals I		3
INT 161 – Blueprint Reading for Industrial Technicians		3
INT 232 – Manufacturing Plant Utilities		3
WKO 106 – Workplace Skills		3
WKO 110 – NCCER Core		3
ORI 101 – Orientation to College or WKO 107 – Workplace Skills Preparation		1
Industrial Maintenance/Millwright AAS Electives: Choose three courses from the following.		9
ELT 131 – Wiring I Commercial and Industrial ELT 212 – Motor Controls II ELT 231 – Introduction to Programmable Controllers IET 122 – Rotating Machinery and Controls ILT 114 – Instrumentation Operation & Calibration ILT 166 -- Motors and Transformers I ILT 214 – Control and Troubleshooting Flow, Level, Temperature, Pressure and Level Processes ILT 180 – Special Topics INT 222 - Special Topics INT 291 – Cooperative Education MTT 100 – Machining Technology I MTT 129 – Lathe Operations MTT 136 – Milling Operations MTT 139 – Basic Computer Numerical Control MTT 140 – Basic Computer Numerical Control Turning Programming I MTT 141 – Basic Computer Numeric Control Milling Programming I PCT 122 – Introduction to Process Technology PCT 210 – Environmental Control Technology PCT 221 – Unit Operations PCT 222 – Unit Maintenance		
Total Hours		61 SH