



Precision Manufacturing and Maintenance Diploma (PM12)- 50 Credit Hours Customized Training Specialization

Program Description:

The Precision Manufacturing and Maintenance diploma program is designed to develop versatile skills required for a variety of manufacturing positions. This planned sequence of courses prepares students to install, program, operate, maintain, service, and diagnose electromechanical equipment used in manufacturing applications. According to the BLS, overall employment of industrial machinery mechanics, maintenance technicians, and millwrights is projected to grow 19% from 2012 to 2022, faster than the average for all occupations. Increased adoption of sophisticated manufacturing machinery will require more highly-skilled mechanics and technicians to keep machines in good working order.

Contact:

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Website:

<https://www.westgatech.edu/program-explorer/manufacturing-and-production/precision-manufacturing-and-maintenance/>

Pre-Diploma Requirements

Program Specific

- Min GPA 2.0
- Carrollton, Coweta and LaGrange Campus
- Prerequisites – Minimum Grade of C required

Set the Track, Start the Track, Stay on Track

Meet with an Advising Coach to Stay on Track. S = Semester; CR = Credit Hours; FA = Fall; SP = Spring; SU = Summer; ALL=any semester

✓	Grade	Semester 1	S	CR	Notes & Milestones
		MATH 1012 Foundations of Mathematics	ALL	3	
		EMPL 1000 Interpersonal Relations and Professional Development	ALL	3	
		ENGL 1010 Fundamentals of English I	ALL	3	
		IDSY 1101 DC Circuit Analysis	ALL	3	
		AUMF 1560 Manufacturing Production Requirements	ALL	1	
				13	Program Semester Hours
✓	Grade	Semester 2	S	CR	Notes & Milestones
		AUMF 1110 Flexible Manufacturing System I	SP	5	
		IDSY 1105 AC Circuit Analysis	FA SP	3	
		IDSY 1171 Industrial Mechanics	SP	4	
		IDSY 1240 Maintenance for Reliability	ALL	4	
				16	Program Semester Hours

Choose One Of The Following Specializations					
		INDUSTRIAL/MECHANICAL (22 – Credit hours)			
		AMCA 2110 CNC Fundamentals	ALL	4	
		AUMF 1210 Flexible Manufacturing Systems II	ALL	5	Prerequisites IDSY 1112
		IDSY 1260 Machine Tool for Industrial Repairs	ALL	4	
		MCHT 1020 Heat Treatment and Surface Grinding	ALL	4	
		MEGT 1010 Manufacturing Quality Control	SP	3	
		MEGT 2100 Manufacturing Quality Control	ALL		ENGT 1000 OR MATH 1013 or MATH 1111 with a minimum grade of C
		Occupational Elective(s) AMCA, AUMF, ELCR, IDSY, MCHT, MEGT	ALL	3	
		CUSTOMIZED TRAINING (23 – CREDIT HOURS)			
		AUMF 1130 Applied Hydraulics, Pneumatics, and Mechanics	FA SP	2	
		AUMF 1580 Automated Manufacturing Skills	ALL	3	
		IDSY 1112 Motor Controls I	FA SP	4	Prerequisites IDSY 1101 & IDSY 1105
		IDSY 1160 Mechanical Laws and Principles	FA SU	4	
		IDSY 2000 PLC I	FA	4	Prerequisites IDSY 1112
		IDSY 2001 PLC II	FA	4	
		WELD 1330 Metal Welding and Cutting Techniques	SU	2	
		MECHATRONICS (22 – CREDITS HOURS)			
		AUMF 1150 Introduction to Robotics	SP	3	
		AUMF 1580 Automated Manufacturing Skills	ALL	3	
		IDSY 1005 Introduction to Mechatronics	SP	4	
		IDSY 1230 Instrumentation	SP	4	
		IDSY 2000 PLC I	FA	4	
		IDSY 2830 Networking Industrial Equipment	FA	4	
Always check online https://www.westgatech.edu/ and meet with your Advising or Faculty Coach to ensure you are viewing the latest and most accurate information.					

Employment Opportunities: <https://www.westgatech.edu/student-life/career-services/>

Financial Aid by Program: <https://www.westgatech.edu/wp-content/uploads/2019/02/WGTC-Available-Aid-By-Program-11-17-2023.pdf>

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