## **School District**



## **Manufacturing Production Technician**

## **HS & Web Address**

Minimum HS Graduation Requirements			s P	PROGRAM OF STUDY MATRIX TEMPLATE: MIDDLE - HIGH SCHOOL - POSTSECONDARY  CTE Pathy							
	Grade	English	Math	Science	Social Studies	Additional Required Courses	Career & Techn Courses	ical	Other Required or Elective Courses		
Student Success Plans outlining career goals should be utilized through the advisement process.											
Middle School	7	ELA 7	Math 7	Science 7	Social Studies 7		Introduction to Technolog	Introduction to Technology Education			
	8	ELA 8	Math 8	Science 8	Social Studies 8		Inventions & Innovations of Technology Education		Electives		
Secondary	9	ELA 9	Algebra I	NGSS Aligned Physical/ Integrated Science	Civics/Geography	World Language I			This matrix represents a sample program of study.  The LEA's program of study must be reflective of local/state high school graduation requirements and college entrance requirements.  This matrix should be reflective of the school's course sequence and requirements.		
	10	ELA 10	Algebra II	NGSS Aligned Biology	Economics/ Personal Finance	World Language II					
	11	ELA 11	Geometry	NGSS Aligned Chemistry	US History	Physical Education (≥1 Credit)	MSS 100 - Principles of M AND MSS111 – Electrical System	Ţ.			
	12	ELA 12	Pre-Calculus or Statistics	NGSS Aligned Physics		Health Education (≥ 0.5 Credit)	MSS112 – Fluid Po AND MSS113 – Electro-Mechan				
	40	The Department of Education has negotiated articulation agreements with Delaware Technical Community College's Mechanical Engineering Technology and Electromechanical Engineering programs.									
Postsecondary	13										
	14										
	15										
Po	Continue courses in the area of specialization.								Required courses will vary by PS institution.		





Additional Learning Opportunities										
Early Career Opportunities:	Early College Opportunities:	Industry Recognized Certifications/Licenses:	Student Organization:							
	☐ Dual Enrollment	Manufacturing Skill Standards Council, Certified	TSA - Technology Student							
☐ Internship	☐ Advanced Placement	Production Technician (CPT)	<u>Association</u>							
Other:			OR							
Other Early Career Opportunities	Delaware Technical Community College:	Certification	SkillsUSA							
	ELM130 – Industrial Electricity - 3 credits	American Society for Quality Lean Green Belt								
The Manufacturing Logistics Technician program	ELM205 - Mechanisms & Design - 3 credits	Certification								
of study provides students with work-based	ELC243 – Program Logic Controllers - 4 credits	Occupational Safety and Health Administration -								
learning experiences or Craftsmanship	OR	10-Hour Construction Safety Certification								
Placements upon successful completion of the	ELC125 – Electrical Circuits I - 3 credits	Occupational Safety and Health Administration -								
MSS100 - Principles of Manufacturing and	ELC243 – Program Logic Controllers - 4 credits	3 Hour Safety Refresher Certification								
MSS101 - Manufacturing Quality, Safety, and	OR	□ Delaware Technical Community College								
Practices courses.	MET115 – Mechanical Eng Tech - 3 credits	Certification								
	ELC248 - Electro-Mechanical Sys - 4 credits									
	☐ Pre-Apprenticeship									
	Other: Other Early College Opportunities									

Sample Careers By Educational Level									
Employment Opportunities (Upon Completion of HS Pathway)	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or Above						
	Electrical Equipment Installer/Repairer	Quality Engineer							
	Industrial Electronic Installer/Repairer/Manager	Logistical Engineer							
	Industrial Machinery Mechanic	Design Engineer							
	Industrial Maintenance Electrician	Electronics Engineer							
	Industrial Maintenance Technician/Mechanic	Engineering and Related Technologist							
	Job/Fixture Designer	Industrial Engineer							
	Maintenance Repairer	Labor Relations Manager							
	Automated Manufacturing Technician	Manufacturing Engineer							
	Calibration Technician	Manufacturing Technologist							
	Electromechanical Equipment Assembler	Mechanical Engineer							

<sup>\*</sup>May require higher education depending on job responsibilities.

Feeder Middle School(s):

Colleges/Universities and Articulated Credit Agreements:

Articulation agreements/Memorandums of Understanding:

Delaware Technical Community College – ELM130, ELM205, ELC243, ELC125, MET115, ELC248

LEA Additional Graduation Requirements:

