

Course Overview: Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities.

Maintenance, Installation, and Repair

Career Goal (O*NET Code): Industrial Engineering Technician (17-3026), Maintenance Repairer (49-9042), Electrical and Electronic Repairer including Commercial and Industrial Equipment (49-2094), Electrician (47-2111), Medical Equipment Technician (49-9062).

Student Name:	 	
Grade:		
School:		_

			SUGGESTED COURSEV	VORK		EXTENDED LEARNING EXPERIENCES		
Middle School	8th	HS Courses:			Curricular Experiences: SkillsUSA Technology Student Associat	<u>ion</u>	Extracurricular Experiences: Language Immersion Programs School Newspaper	
High School	9th	Core Courses:		eography Professional Communications Education es other than English I			Science Olympiad Student Government UIL Academic Competitions	
		Career-Related Electives:	Principles of Manufacturing				Yearbook	
	10th	Core Courses:	English II Geometry Chemistry	World History Languages other than English II	Career Learning Experience Apprenticeship Career Preparation	?S:	Service Learning Experiences: Boy Scouts of America Campus Service Organizations	
		Career-Related Electives:	Introduction to Metal Working		Internship Job Shadowing		Campus Service Organizations Community Service Volunteer Girl Scouts of the USA	
	11th	Core Courses:	English III Algebra II Physics	United States History			Habitat for Humanity Peer Mentoring / Peer Tutoring	
		Career-Related Electives:	Advanced Welding or Advanced Technolog	y and Manufacturing Academy		COLLEGE CREDIT OPPORTUNI		
	12th	Core Courses:	English IV Precalculus Engineering design and Problem Solving	Government/Economics Fine Arts	Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses (Tech Prep), if possible. List those courses that count for college credit on your campus.			
		Career-Related Electives:	Advanced Precision Metal Manufacturing o Academy or Career Preparation I	r Advanced Technology and Manufacturing				
	On-the-Job Training	Maintenance Assistant		Drafting Assistant			Professional Associations: American Electroplaters and Surface Finishers Society	
	0	NOTE: These experiences may be started and/or completed as part of the high school experience.				American Iron and Steel Institute		
	Certificates	CCER Core AWS Entry Level Welder afety/Welder/Ironworker OFA CareerSafe OFA CareerSafe OFE: Students may earn all or part of these certificates as part of the high school experience.		Career Options: Assembler	Machine Operator	American Machine Tool Distributors Association American Welding Society Composites Fabricators Association National Association of Manufacturers		
tsecond	Associate Degrees	Industrial Equipment I and Repairers		Mechanical Engineering-Related Technologies	Career Options: Pattern and Mold Maker Production Associate	Sheet Metal Worker	National Tooling and Machining Association Precision Metalforming Association Robotic Industries Association Society for Maintenance and Reliability Professionals	
	Bachelor Degrees	Technology Managem	nent Design Technology	Industrial Technology	Career Options: Calibration Technician	Electromechanical Technician	Society of Manufacturing Engineers	
	Graduate Degrees	Engineering Technolo	gy Design Technology	Industrial Safety	Career Options: Plant Manager	Industrial Engineer		
	Students	may select other elective cou	rses for personal enrichment purposes.		This plan of study serves as a guide, alor	ng with other career planning materials, for pursuing a	a career path and is based on the most recent information as of 2009.	