



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

Craft Training: Advanced Welding, Electrical, Pipefitting

Student Name _____

ID _____ **Grade:** 9 10 11 12

Entered 9th grade: 20_____ - 20_____

Diploma Plan: RHSP DAP* MHSP TEXAS SCHOLAR

Note 1: Health and technology Applications locally required Note 2: Entered 9th grade in 2010 - 2011 and thereafter must include Fine Arts

SUGGESTED COURSEWORK

EXTENDED LEARNING EXPERIENCES

Middle School	8th	HS Courses:			Curricular Experiences:	Extracurricular Experiences:
High School	9th	Core Courses:	English I / PAP Algebra I / Geometry / PAP Biology / PAP	World Geography / PAP Spanish I P. E. Fine Arts / Tech App (BIM)	Curricular Experiences: SkillsUSA Technology Student Association Career Learning Experiences: Apprenticeship Career Preparation Internship Job Shadowing	Extracurricular Experiences: Language Immersion Programs School Newspaper Science Olympiad Student Government UIL Academic Competitions Yearbook Service Learning Experiences: Boy Scouts of America Campus Service Organizations Community Service Volunteer Girl Scouts of the USA Habitat for Humanity Peer Mentoring / Peer Tutoring
		Career-Related Electives:	(BIM)			
	10th	Core Courses:	English II / PAP Geometry / Algebra II / PAP Chemistry / PAP IPC	World History / PAP Spanish II Elective: (BIM)Tech App / Fine Arts Elective:		
		Career-Related Electives:	Agriculture Mechanics and Metal Technologies			
	11th	Core Courses:	English III / AP Adv. Math IV Algebra II* /MMA/ Pre-Cal / PAP/ DC Physics* PTI Chemistry / PAP	United States History / AP / DC Professional Communications / Comm Appl / Health Spanish III / DC		
		Career-Related Electives:	Welding I or Pipefitting I or Electrical I or Instrumentation I			
	12th	Core Courses:	English IV / AP / DC Algebra II/ Adv Math IV / Pre-Cal /PAP Calculus AP/ Math DC	Physics /PTI Fourth Science: Government/ AP/ DC Economics / AP/ DC Electives:	COLLEGE CREDIT OPPORTUNITIES -- High School 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:	(CTC) Advanced Welding or Pipefitting II or Electrical II or Instrumentation II			
Postsecondary	On-the-Job Training	Maintenance Assistant Shop Helper Electrical Trades	Drafting Assistant Plumbing	Security System Installation/Repair Welding/Metal Trades		Professional Associations: American Electroplaters and Surface Finishers Society American Iron and Steel Institute American Machine Tool Distributors Association American Welding Society Composites Fabricators Association National Association of Manufacturers National Tooling and Machining Association Precision Metalforming Association Robotic Industries Association Society for Maintenance and Reliability Professionals Society of Manufacturing Engineers
	Certificates	Welder/Welding Drafting	OSHA CareerSafe	Career Options: Assembler Machine Operator Iron Worker		
	Associate Degrees	Electrical Engineering Industrial Equipment Maintenance and Repairers Engineering Technology	Industrial Production Welder Welding Technologies	Mechanical Engineering-Related Technologies		
Bachelor Degrees	Technology Management Construction	Design Technology	Industrial Technology	Career Options: Calibration Technician Electromechanical Technician		
Graduate Degrees	Engineering Technology	Design Technology	Industrial Safety	Career Options: Plant Manager Engineer Industrial Engineer Construction Entrepreneur		

Students may select other elective courses for personal enrichment purposes.

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2010. All plans meet high school graduation requirements as well as college entrance requirements.