

Welding 2

Alvin ISD CTE Scope and Sequence

1 st 9 weeks		2 nd 9 weeks	
<u>Time</u>	<u>Units</u>	<u>Time</u>	<u>Units</u>
1 Week	<p>Class Introductions: Guidelines of Student Expectations and Policy and Procedures. Goal setting 130.364 (1A,1B,1D,1E,1F,1G,1H,2A,2B,2E,2F,4C,4D,</p> <p>Recap Advancement in Welding Technology: Students explore possible careers in the welding trades and jobs that are related to the industry. 130.364 (1C,1K,2C,2D,4F)</p> <p>Recap / Shop and Tool Safety: The student will be expected to set up and break down the oxy-fuel torch according to the ANSI Z49.1:2005 Code book 130.364 (1A,1C,1D,1H,1I,5A,5B,5C)</p>	9 Weeks	<p>Oxy-fuel Cutting & Plasma Torch Cutting: Students will set up and practice cutting with the oxy-fuel cutting torch and plasma torch. 130.365 (1C,1D,1H,2A,2D,5A,5B,5C,6A,6C,6D))</p> <p>Shielded Metal Arc Welding: Students will practice and perform SMAW. Will also work towards the AWS D9.1 & AWS D1.1 welding certification. 130.365 (1C,1D,1H,2A,2D,7A,7B,7C,7D,7E,7F,7G)</p> <p>Gas Metal Arc Welding: Practice and perform GMAW. Will also work towards the AWS D9.1 & AWS D1.1 welding certification. 130.365 (1C,1D,1H,2A,2D,8A,8B,8C,8D,8E)</p> <p>Flux Core Arc Welding: Practice and perform FCAW. Will also work towards the AWS D9.1 & AWS D1.1 welding certification. 130.365 (1C,2A,2D,9A,9B,9C,9D,9E,9E))</p> <p>Gas Tungsten Arc Welding: Practice and perform GTAW. Will also work towards the AWS D9.1 & AWS D1.1 welding certification. 130.365 (1C,2A,2D,10A,10B,10C,10D,10E)</p>
2 Week			
6 Weeks			
	<p>Oxy-fuel Cutting & Plasma Torch Cutting: Students will set up and practice cutting with the oxy-fuel cutting torch and plasma torch. 130.365 (1C,1D,1H,2A,2D,5A,5B,5C,6A,6C,6D))</p> <p>Shielded Metal Arc Welding: Students will practice and perform SMAW. Will also work towards the AWS D9.1 & AWS D1.1 welding certification. 130.365 (1C,1D,1H,2A,2D,7A,7B,7C,7D,7E,7F,7G)</p> <p>Gas Metal Arc Welding: Practice and perform GMAW. Will also work towards the AWS D9.1 & AWS D1.1 welding certification. 130.365 (1C,1D,1H,2A,2D,8A,8B,8C,8D,8E)</p> <p>Flux Core Arc Welding: Practice and perform FCAW. 130.365 (1C,2A,2D,9A,9B,9C,9D,9E,9E))</p> <p>Gas Tungsten Arc Welding: Practice and perform GTAW. 130.365 (1C,2A,2D,10A,10B,10C,10D,10E)</p>		

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3rd 9 weeks	4 th 9 weeks
<p><u>Units</u></p> <p>Career and Professional Development: Understand career opportunities and help to establish career goals. Will also work towards the AWS D1.1 & AWS D9.1 welding certification. 130.364 (2A,2B,2C,2D,2E,2F)</p> <p>Welding Project: Students will apply skills and knowledge to build a project using cutting and welding procedures. 130.364 & 130.365 (1J,3A,3B,3C,3D,3E,3F,3G,5A,5B,6A,6B,7A,7B,7C,8C,9B,10C,11B,11C)</p> <p>Employability Skills: Skills needed in the workplace to be successful. 130.364 & 130.365 (3A,3B,3C,3D,3E,3F,3G,5A,5B,6A,6B,7A,7B,7C,8C,9B,10C,11B,11C)</p>	<p><u>Time</u></p> <p>Career and Professional Development: Understand career opportunities and help to establish career goals. Will also work towards the AWS D9.1 welding certification. 130.364 (2A,2B,2C,2D,2E)</p> <p>Welding Project: Students will apply skills and knowledge to build a project using cutting and welding procedures. 130.364 & 130.365 (1J,3A,3B,3C,3D,3E,3F,3G,5A,5B,6A,6B,7A,7B,7C,8C,9B,10C,11B)</p> <p>Employability Skills: Skills needed in the workplace to be successful. 130.364 & 130.365 (1J,3A,3B,3C,3D,3E,3F,3G,5A,5B,6A,6B,7A,7B,7C,8C,9B,10C,11B)</p> <p>Semester Finals: Project for final exam grade. 130.364 (1A,1D)</p>