

Blueprint for Instruction and Assessment

Welding Technologies

48.0508.00



Domain	Related Standards	Instructional Time
Domain 1 Shop and Tool Safety	STANDARD 1.0 MAINTAIN THE SAFETY AND HEALTH OF WELDERS STANDARD 9.0 USE AUXILIARY EQUIPMENT AND TOOLS	25 - 30%
Domain 2 Thermal Cutting and Blueprint Reading	STANDARD 2.0 LAY OUT AND FIT UP A PROJECT FROM A BLUEPRINT STANDARD 7.0 SET UP AND USE THERMAL CUTTING EQUIPMENT	20 - 25%
Domain 3 Weldment Testing	STANDARD 3.0 SET UP AND USE SHIELDED METAL ARC WELDING (SMAW) EQUIPMENT STANDARD 8.0 PERFORM WELDMENT TESTING	15 - 20%
Domain 4 Wire Feeding Processes	STANDARD 4.0 SET UP AND USE GAS METAL ARC WELDING (GMAW) EQUIPMENT (MIG) STANDARD 5.0 SET UP AND USE FLUX CORED ARC WELDING (FCAW) EQUIPMENT	15 - 20%
Domain 5 GTAW	STANDARD 6.0 SET UP AND USE GAS TUNGSTEN ARC WELDING (GTAW) EQUIPMENT (TIG)	10 - 15%

Content domains are bodies of knowledge, skills, or abilities to be taught and assessed. They illustrate the relationship among technical standards, instructional time, and student success on the Technical Skills Assessment. This blueprint corresponds with the Technical Standards endorsed on May 19, 2021.

