

Services and Equipment Provided by M.O.S.T. During a Typical Outreach Training:

The 6-week rapid training program follows an accelerated curriculum. The following personnel and equipment will be deployed for a typical 6-week welding training program:

- Prepare all training sites in advance of training modules with all necessary accommodations for parking, classrooms, bathroom facilities, water breaks and availability to food services.
- Provide RV rolling labs with virtual welding units as needed to support marketing and recruitment needs at various military bases, armories, and reserve centers on a class-by-class basis.
- Deploy and transport onsite complete self-sustaining OSHA-approved welding labs with no less than 8 welding stations per unit.
- Provide all necessary customized general welding fabrication equipment units to include but not limited to flux core/metal core automatic wire feeding units to match manufacturing specifications at hiring facility.
- Provide plasma cutting units and shop equipment needed for weld cleaning and testing.
- Provide all gas and oxygen cylinders nesting modules and multiple cutting torches for teaching course exercises.
- Provide all necessary equipment and metal units to train and pass certification criteria at end of class for American Welding Society (AWS) D1.1 Certification Test in the 2G position, unlimited thickness.
- Provide each student with all necessary personal protection equipment (except shoes) to include leathers, welding mask, goggles, gloves, and ancillary equipment in an equipment tote.
- Provide virtual training equipment for initial classes along with all necessary micrometers, hand tools, and training materials as directed by instructors.
- Provide generator sets to power all welding units and ancillary equipment for self-sufficient operation. Set up fueling schedule and safety needs for hot metal disposal.
- Provide staff, and instructors with housing accommodations, travel and vehicle access as needed to fulfill mission.
- Provide all necessary dumpsters, OSHA spill mats and daily removal of refuse from classes and lab operations.
- Set up daily classroom needs to meet scheduled training outline.
- Launch full student recruitment at military bases.
- Act as liaison for customer and military base and unit commanders to facilitate smooth transition with military personnel and onsite training criteria and regulations.
- Provide security for all units during training schedule. Assist training providers with any outside needs and arrange to clean and leave training areas in previous conditions at end of classes.
- Provide specific detail on steel sizes and thicknesses to conform with hiring company needs and duplicate and supply company blueprints for instructor classes.
- Supply all necessary steel coupon sizes to meet exact customized manufacturing criteria specific to plant location and job specifications.

DAY #	SUBJECT	DESCRIPTION	APPROXIMATE TIME
Day #1	Intros & Welcomes to all	Intro of guests, instructors--intro of students	90 minutes
	A&M & MOST goals	Description of goals and review of total program through cert. and job choice	60 minutes
	Class schedule	Days of the week, hours, importance of punctuality	15 minutes
	Class overview	Sign in process, Class content	15 minutes
	FCAW video, safety video	Intro to welding/safety	60 minutes
	Intro to VRTEX 360 Simulator	Description of simulator--what to expect	remainder of day
Day #2	Math Pre-Test	Assessment	45 minutes
	Measurements	Assessment	45 minutes
	Blueprint Pre-Test	Assessment	45 minutes
	Welding Nomenclature	Assessment	45 minutes
	VRTEX 360 Simulator	Set-up and exercises & techniques	remainder of day
Day #3	Math Review	Assessment review	90 minutes
	Math Test	Test	90 minutes
	VRTEX 360 Simulator	exercises & techniques	remainder of day
Day #4	Welder PPE	Description of various PPE	60 minutes
	Electricity	Types, Polarities, Safety	60 minutes
	Welder Health Issues	Personal first aid, diet, hygiene	30 minutes
	VRTEX 360 Simulator	Exercises & techniques	remainder of day
Day #5	Plasma Cutting	Brief description and setup, names of parts	30 minutes
	WPS, PQR	Description and how to use them	30 minutes
	Welding nomenclature	Review of welding terms	15 minutes
	Welder Certification	What is it? How to prepare for test	60 minutes
	Numbering System	For rods and wire	15 minutes
	Parts of a Weld	Illustrate and explain	15 minutes
	Parts of a Mig Gun	Illustrate and explain	15 minutes
	Different Types of Welding	SMAW, FCAW,GTAW, etc	15 minutes
	VRTEX 360 Simulator	Exercises & techniques	remainder of the day

DAY #	SUBJECT	DESCRIPTION	APPROXIMATE TIME
Day #6	Blueprint Reading	Tooling-U Line Interpretation & Basic Views, Line Interpretation & Basic Views Assessment. Additional views, Additional Views Assessment.	all day
Day #7	Blueprint Reading	Tooling-U Sectioning, Sectioning Assessment. Use of Assembly Drawings	all day
Day #8	Blueprint Reading	Tooling-U Assembly Drawings Assessment. Dimensioning & Tolerancing, Dimensioning & Tolerancing Assessment	all day
Day #9	Blueprint Reading	Tooling-U Additional Print Information, Additional Print Information Assessment. Structural Shapes, Structural Shapes Assessment.	all day
Day #10	Welding Symbols	Overview & explanation of standard AWS Welding symbols	180 minutes
	Types of Welds & Positions	Fillet and Groove welds in various positions 1G, 2G, 3G, 1F, 2F, 3F	30 minutes
	Welder Set-up	Discuss polarity, wire spool loading, shielding gas hook-up, wire speed, and grounding.	30 minutes
	Practice Plate set-up	Size of plates, x"s, direction, grounding	30 minutes
	VRTEX 360 Simulator Issue PPE	exercises & techniques helmets, gloves, pliers, etc.	150 minutes last 60 minutes of day

DAY #	SUBJECT	DESCRIPTION	APPROXIMATE TME
Day #11 (in shop)	Flat Beads	Making a single 6" Bead in the flat position	all day
Day #12	Flat Beads	Introduce Sequence Beading (overlapping) in the flat position	all day
Day #13	1F Beads (use "+")	Making single beads in the 1F position and transition into sequence beading (overlapping) in the 1f position	all day
Day #14	1 F Beads (use "+")	Sequence Beading (overlapping) in the 1F position	all day
Day #15	2F beads (use "x")	Make single bead in 2F position and then transition into sequence beading (overlapping) in the 2F position	all day

DAY #	SUBJECT	DESCRIPTION	APPROXIMATE TIME
Day #16	2F Beads (use "x")	Sequence Beading (overlapping) in the 2F position	all day
Day #17	Horizontal Beads	Make Single Beads in the horizontal position	all day
Day #18	2G Beads (use "X")	Sequence Beading (overlapping) in the horizontal position	all day
Day #19	2G Beads (use "X")	Sequence Beading (overlapping) in the horizontal position	all day
Day #20	2G Beads (use "X")	Sequence Beading (overlapping) in the horizontal position	all day

DAY #	SUBJECT	DESCRIPTION	APPROXIMATE TIME
Day #21	2G Beads (use "x")	Sequence Beading (overlapping) in the 2G position	all day
Day #22	2G Beads (use "x")	Sequence Beading (overlapping) in the 2G position	all day
Day #23	2G Practice Plates	Check root bead before completing 2G practice plate with sequence beading (overlapping)	all day
Day #24	2G Practice Plates	Check root bead before completing 2G practice plate with sequence beading (overlapping)	all day
Day#25	2G Practice Plates	Check root bead before completing 2G practice plate with sequence beading (overlapping)	all day

DAY #	SUBJECT	DESCRIPTION	APPROXIMATE TIME
Day #26	2G Practice Plates	Complete practice plates for AWS D1.1 certification test in 2G position	all day
Day #27	2G Practice Plates	Complete practice plates for AWS D1.1 certification test in 2G position	all day
Day #28	2G Practice Plates	Complete practice plates for AWS D1.1 certification test in 2G position	all day
Day #29	Test Prep	Review steps for actual AWS D1.1 test	all day
Day #29	Test Prep	Prep and tack plates per test specifications	all day
Day #30	Test Day	AWS D1.1 Certification Test in the 2G position	all day

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Mobile Outreach Skills Training

