

EMPLOYABILITY PROFILE

Welding



Industry Based Skill Standards

				Profi
NA	= Not Appl	icable	1 = De	eveloping
	9th	10th	11th	12th
History of Welding	5411	10111		1200
Recognizes some of the s	significant d	levelopmer	its in the h	istory of
welding.				,
5				
Personal and Profession				
Defines principles that co		•	•	
success. Demonstrates d	ifferent typ	es of skills r	needed for	а
successful welder				
Effective Communication	n in welding	g		
Displays written and ver	oal commur	nication eff	ectively. In	terprets
instruction or directions	for a specifi	ic welding j	ob before,	during,
and/or after welding				
Shop / Jobsite Safety				
Understands machinery	and tool ha	zards prese	nt in a we	ding
shop/jobsite and the safe				-
emergency	,			
Tools and Equipment				
Demonstrates proper use	e of machin	ery, power	tools, and	hand tools
after thorough training. I			e recomm	endations
and inspects the equipm	ent before	each use		
Welding and Cutting				
Identifies recent develop	ments in w	elding and	cutting pro	ocesses.
Uses various processes c	urrently use	ed in indust	ry. Utilize a	and
differentiate between Pla	asma arc cu	itting and C)xy-fuel cut	tting
The Physics of Welding		-	-	
Understands and can diff	ferentiate t	he 3 prope	rties of me	tal -
Physical, Chemical, and N				
, , , ,				
Math for Welding				
Describes and utilizes ap	plications fo	or math in v	welding an	d in
personal life. Can add, su	ıbtract, mul	ltiply, and d	livide whol	e
numbers, fractions, and	decimals. A	ble to conv	ert betwee	en fractions
and decimals				
Math Applications for				
Welders				
Measure using both U.S.		• •		
metric system. Convert le	0			
and from Metric units to				
area, and volume of com		s. Convert	welding va	lues from
and to standard and met	ric units			