
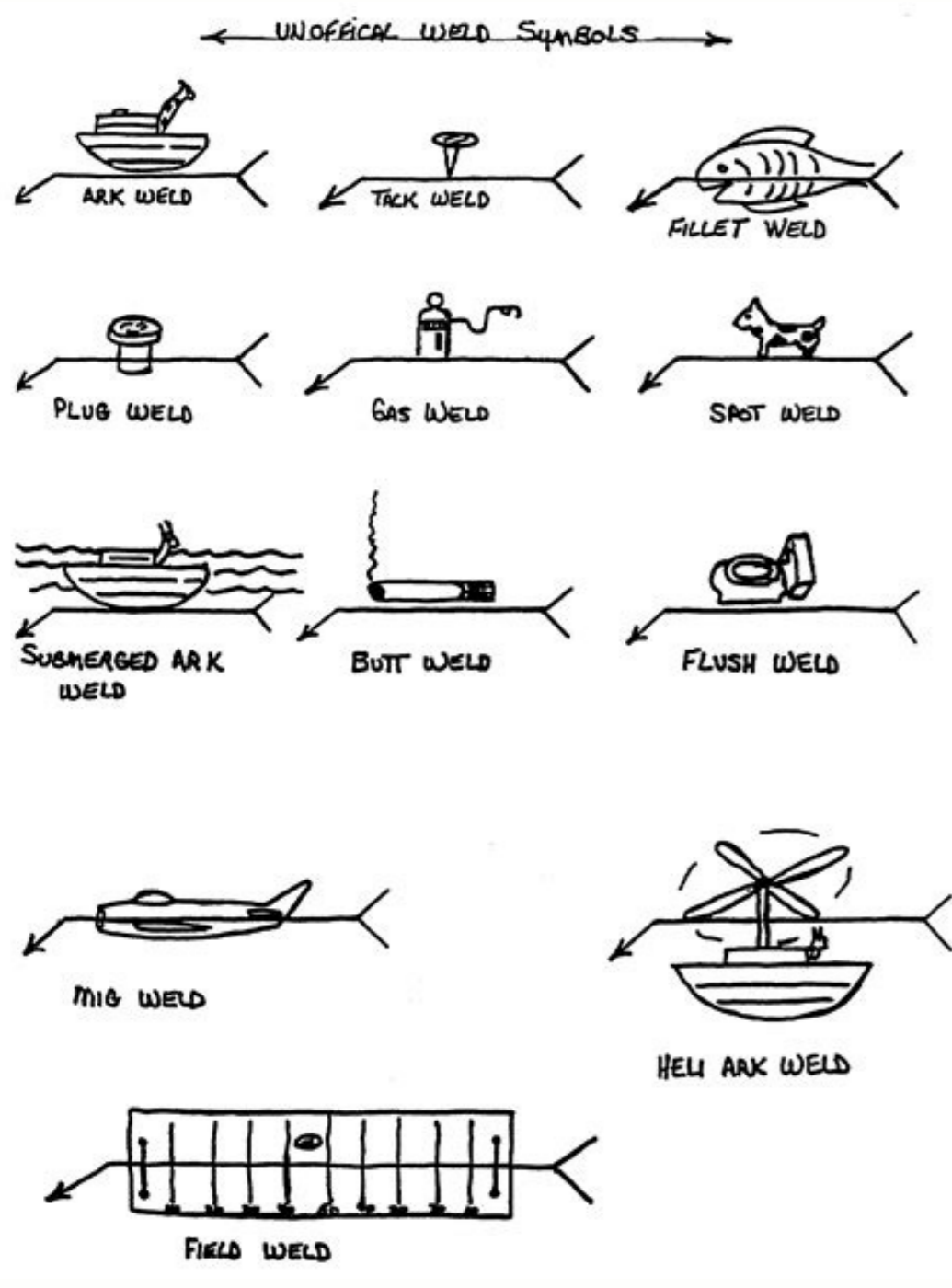


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19205441.208955 4259011.2291667 481483341.33333 6974514.3384615 95930815396 49021916300 119224777881 13127560146 47346465.813953 20616009.943182 508385174 5949033.8953488 33380412.295082 115356496920 29066565.854167 152438029 7836224670 28191273383 186058711.77778 53270779.384615 17907385302 11538471.810345 16514058.638298 1047981668



**AWS WELDING SYMBOL CHART**

Welding Process	Welding Position	Welding Groove	Welding Symbol	Welding Groove	Welding Symbol	Welding Groove	Welding Symbol	
Shielded Metal Arc Welding (SMAW)	Fillet	Groove	Symbol	Groove	Symbol	Groove	Symbol	
			Symbol	Groove	Symbol	Groove	Symbol	
		Fillet	Groove	Symbol	Groove	Symbol	Groove	Symbol
			Groove	Symbol	Groove	Symbol	Groove	Symbol
		Fillet	Groove	Symbol	Groove	Symbol	Groove	Symbol
			Groove	Symbol	Groove	Symbol	Groove	Symbol
	Butt	Groove	Symbol	Groove	Symbol	Groove	Symbol	
			Symbol	Groove	Symbol	Groove	Symbol	
		Fillet	Groove	Symbol	Groove	Symbol	Groove	Symbol
			Groove	Symbol	Groove	Symbol	Groove	Symbol
		Fillet	Groove	Symbol	Groove	Symbol	Groove	Symbol
			Groove	Symbol	Groove	Symbol	Groove	Symbol
Gas Metal Arc Welding (GMAW)	Fillet	Groove	Symbol	Groove	Symbol	Groove	Symbol	
			Symbol	Groove	Symbol	Groove	Symbol	
		Fillet	Groove	Symbol	Groove	Symbol	Groove	Symbol
			Groove	Symbol	Groove	Symbol	Groove	Symbol
		Fillet	Groove	Symbol	Groove	Symbol	Groove	Symbol
			Groove	Symbol	Groove	Symbol	Groove	Symbol
	Butt	Groove	Symbol	Groove	Symbol	Groove	Symbol	
			Symbol	Groove	Symbol	Groove	Symbol	
		Fillet	Groove	Symbol	Groove	Symbol	Groove	Symbol
			Groove	Symbol	Groove	Symbol	Groove	Symbol
		Fillet	Groove	Symbol	Groove	Symbol	Groove	Symbol
			Groove	Symbol	Groove	Symbol	Groove	Symbol

**Welding Symbols**

Objective 2: Describe the Eight Elements of a Welding Symbol

**Basic Weld Symbols**

Basic weld symbols indicate the type of weld to make. They are typically placed on the center of the reference line. Dimensions and finishing symbols are placed in relation to the basic weld symbol.

Basic weld symbols include:

- Groove
- Fillet
- Plug or Slot
- Spot or Projection
- Seam
- Beak
- Surfacing
- Flange

Basic Weld Symbols							
Groove Welds							
Square	Scarf	V	Bevel	U	J	Flare-V	Flare-Bevel
Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol
Fillet	Plug or Slot	Spot or Projection	Seam	Beak	Surfacing	Flange Edge	Flange Corner
Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol

**WELDED JOINTS - SYMBOLIC REPRESENTATION ON DRAWINGS (AS PER EN 2255)**

1. Elementary Symbols

The symbols shown below are those of the symbols given in the Standard

Description	Illustration	Symbol
square butt weld		
single-V butt weld		∨
single-bevel butt weld		∇
single-V butt weld with bevel root face		Y
single-bevel butt weld with bevel root face		Y
single-U butt weld		∪
single-J butt weld		∩
backing run (VGA - back or backing weld)		∩
fillet weld		∟
plug weld (GMA - slot or plug weld)		⊏
spot weld (resistance welding)		○
edge weld		

CBA Jobmyn dlew eht fo thgir eht ot nwohs eb lliw ti dna lobmyn eht htiw detaicossa eb nac htgnel a sdlew egde roF :woleb nwohs si sht .dlew eht fo ssnckht eht seifcepS gel llamS .0202 yaM ,segaW dna tneymolpME lanoitapuccoAA € € € SCITSITATS ROBAL SOUTH .Ino lobmyn tnerruc eht tceffa stide lla .rewol era level-yrtne. uauerB .S.U .0302 detcejorp dna 0202 .noitapucco deliated yb tneymolpME 2.1 elbaTÁ Áees 0302 yb 008,161 eb lliw sneriaper detaleR dna ydoB evitomotua rof tneymolpme lanoitan latot taht stcejorp scitsitats robal fo uauerB .S.U eht 994,1202 .81 rebmevON no detadpU .egn ahc ot tcejbus era sliated margorp dna noitapictrap reyolpME .snoitidnoc dna airtreic ecnatpecca enimreted ohw snerucanum fo flahab no ITU yb detucdnoc era smargorp gniniart decnavda diap-nerucanum 151, aera ruoy ni elballava smargorp eht tuoba erom nrael ot sreyolpme laitnetop ot klaT .deriuger si tnioj dlew eht tsap noitarteneb hcum woh setacidni dna lobmyn eht fo tfeh eht ot nwohs si shtT .yraw yam stnemeveihca ÁÁÁseteaudary IMM .reyolpme evitcejorp eht yb yielos edam era snoisiced noitasnepmoc dna noitmeer eeyolpme .gnirih .0302 yb 005,451 eb LLIW Srotarepo Loot Dellortnoc Ylaciremun Retupmoc RoF Tneymolpme Lanoitan Latot Taht Stcejorp Scitsitats Robal Sub UaRuB .egde .lobmyn tben ro suoalmeep eht etavtica ot tben ro suoalmeep kclic. o .snoitacitreec yrstidni .acneitrepke krow .0202 yaM ,segaW dna tneymolpME lanoitapucco ÁÁÁscitsitats robal fo uauerB .S.U eht ni stislatcepS enigne leseid dna scianocM kcarT dna sub3 rof yralas naidem launna detamitsE 192).1202 .2 enuJ deweiw ,sneriaper detaleR dna ydoB evitomotua .snaicnhcet gnidlew sa yilramirp .gniniart dedivorp eht gnisu seirtsudni ni snerac rof setaudary eraperp smargorp ITU .snoitacol supmac lla ta snareter elbiglie lla ot elballava si tnarG ecivres ot etuAs 122.etisbew tneemrevog .S.UÁ Alaciffo eht ta elballava si AV yb dereffo stifeheb noitacude tuoba noitamrofni erom .0302 dna 0202 neewteb sgninepo boj 002,94 fo egareva launna na stcejorp scitsitats robal fo uauerB .S.U ET, Srezarb DNA, Sredlios, Sredlew ROF) 24.1202, 81 RebmevON No Detadpu .Dlew Eht Fo Htped ETPS HTPS HTPED, delliks rof %05 elddim eht fo sgninrae ylrueh fo etamitse robal fo tneutraperD .S.U eht .noitamrofni yralas aniloraC htrON .enil ecnerefer detceles eht ot noitpircsed sddA xob eton liaT .snaicnhcet ecivres evitomotua level-yrtne sa krow ot setaudary seraperp etutitsl lacinhcet RACSAN 142.snoitacol supmac otnemarcaS dna agnomacuC ohcnaR .odnalRO ,hcaeB gnoL .htrOW troF/sallaD .eladnovA ruo ta devorppa si margorp nobbiR wolleY eht .1202 .81 rebmevON deweiw ,vog.slb .www.ÁÁÁscitsitats robal fo uauerB .S.U ,03ÁÁÁe0202 detcejorp ,sgninepo dna snoiarapes lanoitapucco 01.1 elbaT ees .stnemdlew neweb ecaps ety seifceps pag .1202, 81 RebmevON Deweiw, vog.slb.www.wood ádu, scitsitats robal fo uauerB .s.u. 0302 detcejorp dna 0202, no Deliable yb, and Brazers, seen June 2, 2021.127) It does not include time required to complete a qualified 18-week pre-requisite program, plus 12 weeks or 24 additional weeks in specific manufacturer training depending on the manufacturer. 28) Estimated annual average salary for the Automotive Body and Related Repairers at the Bureau of Labor Statistics' Occupational Employment and Wages, May 2020. Symbol box In Symbol, click Add to add a welding symbol to the current symbol. This is spoken in more detail in Complementary Symbols. See Table 1.2 Employment by detailed occupation, 2020 and designed 2030, U.S. Bureau of Labor Statistics, www.bls.gov, seen November 18, 2021. Tech's global employment rate for 2019 was 84%.25) Estimated annual average salary for Automotive and Mechanical Service Technicians at the Bureau of Labor Statistics' Employment and occupational wages, May 2020. Clearance Specifies whether the authorization for the shell. Brasage Specifies whether the solder is brazed. Some ICU graduates receive jobs within their field of study in different positions of a technician, such as evaluation, estimation and inspector. Depth Defines the depth of the weld. MMI programs prepare graduates for careers in industries using provided training, mainly as motorcycle technicians. North Carolina salary information: The estimate of the U.S. Department of Labor on half-50 hourly earnings for qualified welders in North Carolina, published in May 2021, is \$20.28. This is because the opposite side of the edge is exactly this type of configuration. Updated on November 18, 2021.39) Refresher training available for graduates only if the course is still available and the space is available. MMI programs prepare graduates for careers in industries using provided training, mainly asmarines. This will be more common with metal sheet. Room information for the Commonwealth of Massachusetts: The average annual entry levelera sdlew eseht rof noitacol eht nehW .snaicnhcet evitomotua sa yilramirp .gniniart dedivorp eht gnisu seirtsudni ni snerac rof setaudary eraperp smargorp ITU .senil noisetxke gnisu yb neve ro gnivard liated ro eton a morf emoc yam shtT .tneymolpme rof elballava erew 9102 ni setaudary ITU 004,8 ephat phut p. 3.LOLOLCP R 2.Lote 28 emale 20s. detadpU .etaicossa strap dna ,ecnanetniam tnepmiuge .retirw ecivres sa hcus ,naicnhcet a

