NATIONAL APPRENTICE AND INDUSTRIAL TRAINING AUTHORITY

Transformation of Apprenticeship NVQ - Establishment Assesment Guide

Requirement of Tools , Equipment and others for

WELDER

Competency Standards Code :D28S002.3

(Selected Package for Apprenticeship Mode)

Sourse : National Competency Standard

Name , Address of Estblishment & Contact Number

Date of Assessment : **District:**

NO	Tools,Equipments & Others	Requirment for the Units																										Availability at Establishment (Yes/No)	Remarks
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
1	Active gas cylinder with heater regulator and flow meter											✓	✓					✓												
2	Anti-spatter- spray/gel											✓	✓	✓	✓	✓	✓	✓	✓											
3	Appropriate machine guards	✓																												
4	Aprons	✓																												
5	Arc welding electrodes for mild steel and stainless steel			✓	✓	✓	✓	✓																						
6	Arc welding equipment with all accessories																								✓					

7	Arc welding tool kit					✓	✓																						
8	Argon gas cylinder																					✓							
9	Blow lamp								✓																				
10	Cast iron electrodes of various sizes																							✓					
11	Chipping hammer & Wire brushes									✓	✓	✓																	
12	Clamps and jigs and fixtures																	✓		✓	✓								
13	Clamps and other clamping devices			✓	✓	✓	✓	✓	✓													✓		✓					
14	Clamps, jigs and fixtures											✓	✓	✓	✓	✓	✓	✓		✓									
15	Cleaning agent								✓																				
16	Cleaning tools					✓	✓																					✓	
17	CO2 gas with flow adjusted to 16-20 Liter per minute																	✓											
18	Colored tape and paint	✓																											
19	Compressed Air or Nitrogen supply																						✓			✓			
20	Cutting and grinding disc									✓	✓	✓	✓																
21	diameter for different welds												✓																
22	Different types of solders and spelters (soldering brazing alloys)								✓																				

23	Disc grinder				✓	✓	✓			✓	✓																		✓		
24	Ear protectors	✓																												
25	Electrode oven (portable/stationary)			✓				✓																						
26	Electrodes			✓				✓																	✓					
27	Equipment for heating and controlling of cooling																								✓					
28	Equipment related to cutting metal		✓																											
29	Facilitation for heat treatment																									✓				
30	FACW filler wire of different diameter for different welds													✓				✓	✓											
31	FCAW equipment for manual welding with accessories													✓				✓	✓											
32	Ferrous and non-ferrous material								✓																	✓	✓			
33	Ferrous or non ferrous sheets									✓	✓																			
34	Filler rods, electrodes, filler wire coil, metal powder as applicable									✓	✓															✓				
35	Fire protection equipment	✓																												
36	First aid box with essential items	✓																												
37	Fluxes									✓	✓																			

38	Gas cutting equipment including the profile cutter		✓	✓	✓	✓	✓	✓	✓	✓	✓																			
39	Gas welding equipment complete with accessories, gas cylinder								✓																	✓				
40	Gases																									✓				
41	Gloves	✓																												
42	Goggles	✓																												
43	Grinder			✓																										
44	Guillotine machine					✓	✓		✓		✓																				
45	Guillotine shearing machine			✓	✓			✓																						
46	Hand drill, pillar drill, and pedestal grinder				✓	✓	✓																					✓		
47	Hand hack saw & power saw			✓	✓	✓	✓			✓	✓																			
48	Hand shears & bench shears			✓	✓	✓	✓	✓	✓	✓	✓																	✓		
49	Hand tools		✓	✓	✓	✓	✓	✓	✓											✓			✓	✓	✓	✓	✓	✓		
50	Hand tools and Power tools												✓	✓	✓	✓	✓	✓	✓		✓	✓								
51	Helmets	✓																												
52	Inert gas cylinder																					✓								
53	Inert gas cylinder with regulator and flow meter														✓	✓	✓		✓	✓	✓									
54	Jigs and fixtures																							✓		✓	✓			

55	Lathe machine (optional)																								✓				
56	Liquefied petroleum Gas (LPG) cylinder		✓																										
57	Machine and safety devices	✓																											
58	MAG welding equipment for manual welding with accessories										✓	✓																	
59	MAG welding filler wire of different diameter for different welds										✓	✓																	
60	Material for controlling cooling rate																							✓					
61	Measuring and marking out tools		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
62	Metal spraying unit																								✓				
63	MIG equipment for manual welding with accessories													✓	✓	✓													
64	MIG filler wire of different diameter for different welds													✓	✓	✓													
65	Mild steal and stainless-steel plates						✓																						
66	Mild steel, Stainless steel, Aluminium sheets																										✓		
67	Mix of Argon gas and CO2										✓	✓	✓				✓	✓											
68	Non-ferrous metal plate																				✓								
69	Non-ferrous pipes																					✓							
70	Oxygen and acetylene cylinders		✓																										

71	Oxygen and acetylene welding equipment									✓	✓																		
72	Oxygen, acetylene gas									✓	✓																		
73	Oxygen, acetylene, Liquefied petroleum Gas (LPG)		✓																										
74	Pedestal grinder			✓				✓	✓	✓	✓																		
75	Plasma cutting equipment and accessories																						✓			✓			
76	Pliers											✓																	
77	Portable Grinder											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
78	Portable grinder with accessories				✓	✓	✓																			✓			
79	Posters	✓																											
80	Respirators	✓																											
81	Safety belts	✓																											
82	Safety gear and equipment		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
83	Safety shoes	✓																											
84	Safety signs and symbols	✓																											
85	Sand papers									✓	✓																		
86	Sanding papers								✓																				
87	Shielding gas supply																						✓			✓			

88	Soldering and brazing fluxes.								✓																						
89	Soldering iron								✓																						
90	Soldering torch								✓																						
91	Spot welding machine and related accessories and electrodes																												✓		
92	Stainless steel pipes																			✓										
93	Stainless steel sheets/plates																		✓											
94	Steel and stainless steel plates				✓																									
95	Steel pipes							✓																						
96	Steel plates (thickness greater than 3mm)			✓																										
97	Suitable flux granules																										✓			
98	Temperature measuring instruments.																									✓				
99	TIG welding equipment for manual welding with accessories																		✓	✓	✓	✓								
100	TIG welding filler rods of different diameter for different welds																		✓	✓	✓	✓								
101	Travelling tractor with accessories		✓																											
102	Welding electrodes				✓																									
103	Welding Equipment					✓	✓																							

104	Welding holder of the standard sizes											✓	✓			✓	✓	✓												
105	Welding holder of the standard sizes Active gas cylinder with heater regulator and flow meter													✓																
106	Welding holder of the standard sizes with ceramic nozzles and tungsten electrode																		✓	✓	✓	✓	✓							
107	Welding machine																									✓				
108	Welding torch of the standard sizes														✓															
109	Workpieces		✓									✓	✓	✓	✓	✓	✓	✓	✓											

	Selected Qualification (Package)	Units

forwarded by:

Name of the Officer : .....

Designation : .....

Signature : .....

Date : .....

Official Stamp : .....

Recommended by:

Name of the Officer : .....

Designation : .....

Signature : .....

Date : .....

Official Stamp : .....

Certified by:

Name of the Officer : ..... *Designation : .....*

Signature : ..... *Official Stamp : .....*

Date : .....