

CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role : Fitter - Fabrication

Qualification Pack : CSC/Q0303

Sector Skill Council : Capital Goods Skills Council

Guidelines for Assessment:

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria.
5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS.
6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.

Assessable outcomes	Assessment Criteria	Total Marks	Out of	Theory	Practical Skills
CSC/N0303 Perform fitting operations on metal components using hand tools and manually operated machines	PC1. comply with health and safety, environmental and other relevant regulations and guidelines at work	100	4	1	3
	PC2. adhere to procedures and guidelines for personal protective equipment (PPE) and other relevant safety regulations while performing fabrication and fitting operations		4	1	3
	PC3. work following laid down procedures and instructions		2	0	2
	PC4. ensure work area is clean and safe from hazards		2	0	2
	PC5. ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition		3	0	3
	PC6. obtain job specification from a valid and approved source		2	0	2
	PC7. read and establish job requirements from the job specification document accurately		3	1	2
	PC8. report and rectify incorrect and inconsistent information in job specification documents as per organization procedures		5	2	3

PC17. check that the oxy-fuel gas cutting equipment is set up for the operations to be performed	2	0	2
PC18. adjust cylinder valves and adjust regulator for operating pressure to achieve specifications for required operations	3	1	2
PC19. seek clarification where marking out is not done or is not clear from authorised person	2	0	2
PC20. perform trial cut to check for cut defects	2	0	2
PC21. operate the oxy-fuel gas cutting equipment to produce items/cut shapes to the dimensions and profiles as per instructions given	5	1	4
PC22. use various oxy-fuel gas lighting and cutting procedures	4	1	3
PC23. perform various cutting operations correctly	4	1	3
PC24. produce thermal cuts in low carbon steel (1.5mm to 10mm)	3	1	2
PC25. produce cut profiles for various type of materials	4	1	3
PC26. produce thermally-cut components which meet specified quality criteria	3	0	3
PC27. recognize and correct burnback and flashback	3	1	2
PC28. detect and correct defects in cut	3	1	2
PC29. ensure the work area is left in a safe and tidy condition on completion of the cutting activities	2	0	2
PC30. check that the finished components meet the standard required	3	1	2
PC31. use appropriate methods and equipment to check the quality, and that all dimensional and geometrical aspects of the cut material are to the specification	3	1	2
PC32. identify various cutting defects and follow organisation recommended procedures to address them	3	1	2
PC33. report any difficulties or problems that may arise with the cutting activities, and carry out any agreed actions	2	0	2
PC34. detect equipment malfunctions and deal with them appropriately	3	1	2
PC35. deal promptly and effectively with problems within their control, and seek help and guidance from the relevant people if they have problems that they cannot resolve	2	0	2

	PC36. shut down and make safe the cutting equipment on completion of the cutting activities		2	0	2
	PC37. in case of emergencies follow standard emergency procedures		2	0	2
		Total	100	20	80
CSC/N0202 Manually weld carbon steels in simple welding positions using Metal Arc Welding / Shielded Metal Arc Welding	PC1. work safely at all times, complying with health and safety legislation, regulations and other relevant guidelines	100	3	1	2
	PC2. adhere to procedures or systems in place for health and safety, personal protective equipment (PPE) and other relevant safety regulations		3	1	2
	PC3. check the condition of, welding leads, earthing arrangements and electrode holder		2	0	2
	PC4. report any faults or potential hazards to appropriate authority		3	0	3
	PC5. follow fume extraction safety procedures		4	1	3
	PC6. read and interpret routine information on written job instructions, welding procedure specifications and standard operating procedures		4	1	3
	PC7. identify welding machines eg. transformers, rectifiers, inverters and generators, according to the task		4	1	3
	PC8. prepare the work area for the welding activities		3	0	3
	PC9. performing measurements for joint preparation and routine MMAW		4	1	3
	PC10. prepare the materials and joint in readiness for welding		3	0	3
	PC11. use manual metal-arc welding and related equipment to include a. alternating current (AC) equipment b. direct current (DC) equipment		4	1	3
	PC12. tack weld the joint at appropriate intervals, and check the joint for accuracy before final welding		5	1	4
	PC13. verify set up by running test weld specimen (scrap plate)		3	0	3
	PC14. report any faults or problem to appropriate authority		3	0	3
	PC15. strike and maintain a stable arc		4	0	4
	PC16. stop and properly re-start arc to avoid welding defects (scratch start, tapping techniques)		3	0	3
	PC17. maintain constant puddle by using appropriate travel speed		3	0	3

	PC18. remove slag in an appropriate manner (eg. wire brush, hammer, etc.)		4	1	3
	PC19. produce tee fillet and corner joints in simple welding positions as per specific instructions given using single or multi-run welds(as instructed)		5	2	3
	PC20. produce joints on low carbon alloy steel sheets and plates		3	0	3
	PC21. weld the joint to the specified quality, dimensions and profile applicable to low carbon alloy steel sheets and plates from 1.5 mm – 24 mm		5	2	3
	PC22. deal promptly and effectively with problems within their control, and seek help and guidance from the relevant people if they have problems that they cannot resolve		2	0	2
	PC23. shut down and make safe the welding equipment and area on completion of the welding activities		2	0	2
	PC24. measure and check that all dimensional and geometrical aspects of the weld are as per instructions		5	2	3
	PC25. check that the welded joint conforms to the instructions given, by checking various quality parameters by visual inspection		5	2	3
	PC26. identify various weld defects using visual inspection		4	1	3
	PC27. detect and report surface imperfections to appropriate authority		4	1	3
	PC28. deal with defects in welding as per instructions given		3	1	2
		Total	100	20	80
CSC/N1335 Use basic health and safety practices at the workplace	PC1. use protective clothing/equipment for specific tasks and work conditions	100	5	2	3
	PC2. state the name and location of people responsible for health and safety in the workplace		3	1	2
	PC3. state the names and location of documents that refer to health and safety in the workplace		3	1	2
	PC4. identify job-site hazardous work and state possible causes of risk or accident in the workplace		5	2	3

PC5. carry out safe working practices while dealing with hazards to ensure the safety of self and others state methods of accident prevention in the work environment of the job role	4	2	2
PC6. state location of general health and safety equipment in the workplace	3	2	1
PC7. inspect for faults, set up and safely use steps and ladders in general use	5	2	3
PC8. work safely in and around trenches, elevated places and confined areas	5	2	3
PC9. lift heavy objects safely using correct procedures	5	2	3
PC10. apply good housekeeping practices at all times	4	2	2
PC11. identify common hazard signs displayed in various areas	5	2	3
PC12. retrieve and/or point out documents that refer to health and safety in the workplace	3	1	2
PC13. use the various appropriate fire extinguishers on different types of fires correctly	4	1	3
PC14. demonstrate rescue techniques applied during fire hazard	4	1	3
PC15. demonstrate good housekeeping in order to prevent fire hazards	3	1	2
PC16. demonstrate the correct use of a fire extinguisher	4	1	3
PC17. demonstrate how to free a person from electrocution	4	1	3
PC18. administer appropriate first aid to victims where required eg. in case of bleeding, burns, choking, electric shock, poisoning etc.	4	1	3
PC19. demonstrate basic techniques of bandaging	3	1	2

	PC20. respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments		4	1	3
	PC21. perform and organize loss minimization or rescue activity during an accident in real or simulated environments		3	1	2
	PC22. administer first aid to victims in case of a heart attack or cardiac arrest due to electric shock, before the arrival of emergency services in real or simulated cases		3	1	2
	PC23. demonstrate the artificial respiration and the CPR Process		3	1	2
	PC24. participate in emergency procedures		3	2	1
	PC25. complete a written accident/incident report or dictate a report to another person, and send report to person responsible		4	1	3
	PC26. demonstrate correct method to move injured people and others during an emergency		4	1	3
		Total	100	36	64
CSC/N1336 Work effectively with others	PC1. accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required	100	10	3	7
	PC2. accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt		10	3	7
	PC3. give information to others clearly, at a pace and in a manner that helps them to understand		10	3	7
	PC4. display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible		10	3	7
	PC5. consult with and assist others to maximize effectiveness and efficiency in carrying out tasks		10	3	7
	PC6. display appropriate communication etiquette while working		10	3	7
	PC7. display active listening skills while interacting with others at work		10	3	7

	PC8. use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism		10	3	7
	PC9. demonstrate responsible and disciplined behaviors at the workplace		10	3	7
	PC10. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict		10	3	7
		Total	100	30	70