





# QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR CAPITAL GOODS INDUSTRY

# What are Occupational Standards(OS)

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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#### Introduction

#### Qualifications Pack- Plasma Cutter - Manual

**SECTOR/S:** CAPITAL GOODS

#### **SUB-SECTOR:**

- 1. Machine Tools
- 2. Dies, Moulds and Press Tools
- 3. Plastics Manufacturing Machinery
- 4. Textile Manufacturing Machinery
- **OCCUPATION:** Welding and Cutting

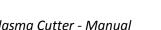
REFERENCE ID: CSC/Q0207

**ALIGNED TO: NCO-2004/NIL** 

- 5. Process Plant Machinery
- 6. Electrical and Power Machinery
- 7. Light Engineering Goods

**Brief Job Description:** The candidate should be able to cut different materials (mild carbon steel, stainless steel, aluminum, high tensile and special steels, and other materials) in various profiles. This involves setting-up and preparing for operations interpreting the right information from the specification documents, obtaining the right consumables and other materials, etc.

**Personal Attributes:** Basic communication, numerical and computational abilities. Openness to learning, ability to plan and organize own work and identify and solve problems in the course of working. Understanding the need to take initiative and manage self and work to improve efficiency and effectiveness.





24/11/2021

**Next review date** 

20/07/2015



4		Qualifications Pack Code	C	SC/Q0207	
ı	ı	Job Role		Cutter - Manual or National Scenarios	)
ils	П	Credits	TBD	Version number	1.0
Job Details	П	Sector	Capital Goods	Drafted on	24/04/2014
الق	П		1. Machine Tools		
qc	П		2. Dies, Moulds and Press		
-	П		Tools		
	П		3. Plastics Manufacturing		
			Machinery		
		Cub asstan	4. Textile Manufacturing	tack on decided as	24/44/2047
		Sub-sector	Machinery	Last reviewed on 24/3	24/11/2017
			5. Process Plant Machinery		
			6. Electrical and Power		
			Machinery		
			7. Light Engineering		
			Goods		

**Welding and Cutting** 

Occupation

**NSQC Clearance on** 



# Qualifications Pack For Plasma Cutter - Manual





Job Role	Plasma Cutter - Manual	
	Manual cutting operations using plasma arc cutting process. The	
Role Description	person would be able to independently carry out plasma arc	
nois scanpaion	cutting operations for as per welding procedure specification	
	(WPS).	
NSQF level	3	
Minimum Educational Qualifications	8 <sup>th</sup> Standard pass, preferably	
Maximum Educational Qualifications	Not Applicable	
Prerequisite License or Training	No Previous Training Required	
Minimum Job Entry Age	18 Years	
Experience	No Previous Experience Required	
	Compulsory:	
	1. CSC/N0207 Manually cut metal materials using plasma arc	
Applicable National Occupational	2. <u>CSC/N1335 Use basic health and safety practices at the</u>	
Standards (NOS)	<u>workplace</u>	
	3. <u>CSC/N1336 Work effectively with others</u>	
Performance Criteria	As described in the relevant OS units	







Keywords /Terms	Description		
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.		
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.		
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.		
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.		
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.		
Performance Criteria	Performance criteria are statements that together specify the standard of performance required when carrying out a task.		
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.		
Qualifications Pack(QP)	QP comprises the set of OSs, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.		
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.		
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.		
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'		
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.		
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.		
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.		
Knowledge and Understanding	Knowledge and understanding are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual need to perform to the required standard.		
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.		
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish		



# Qualifications Pack For Plasma Cutter - Manual





# Acronyms

	specific designated responsibilities.
Core Skills/ Generic Skills	Core skills or generic skills are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. In the context of the OS, these include communication related skills that are applicable to most job roles.
Keywords /Terms	Description
WPS	Welding Procedure Speciation
HAZ	Heat Affected Zone
CO <sub>2</sub>	Carbon Dioxide
CPR	Cardiac Pulmonary Resuscitation
PPE	Personal Protective Equipment



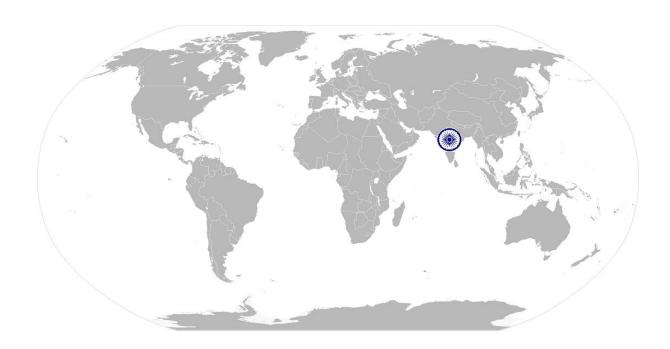






Manually cut metal materials using plasma arc

# National Occupational Standard



# **Overview**

This unit covers manual cutting operations using plasma arc cutting process. The person would be able to independently carry out plasma arc cutting operations as per welding procedure specification (WPS).



**Unit Code** 







# CSC/N0207 Manually cut metal materials using plasma arc

CSC/N0207

Unit Title (Task)	Manually cut metal materials using plasma arc	
Description	This unit is about competencies required for manual cutting operations using plasma arc. The candidate will be able to cut different materials (mild carbon steel, stainless steel, aluminum, high tensile and special steels, and other materials) in various profiles pertaining to the gas cutting process.	
Scope	This unit/task covers the following:	
	Work safely	
	Prepare for cutting operations	
	Carry out cutting operations	
	<ul><li>Test for quality</li><li>Deal with contingencies</li></ul>	
Performance Criteria(P	C) w.r.t. the Scope	
Element	Performance Criteria	
Work safely	To be competent, the user/individual on the bomb must be able to: PC1. work safely at all times, complying with health and safety legislation,	
	regulations and other relevant guidelines	
	Safety precautions (general): general workshop safety; fire prevention;	
	general hazards; manual lifting; overhead lifting; surface conditions; stability	
	of surrounding structures, furniture, etc.	
	PC2. take necessary safety precautions for plasma cutting operations including equipment, processes and checks	
Prepare for cutting operations	To be competent, the user/individual on the job must be able to: PC3. interpret cutting procedure data sheets specifications	
operations	PC4. check regulators, hoses and check that valves are securely connected and	
	free from leaks and damage	
	PC5. check equipment is calibrated and approved for use	
	PC6. check/fit the correct nozzle to the torch	
	PC7. match correct tips and cups to the torch as per requirement and	
	manufacturer's equipment instructions	
	PC8. set the amperage and gas pressure as per metal thickness, metal type, and type of gas	
	Materials type: mild steel; high alloy steel; stainless steel; aluminium and its	
	alloys; other appropriate metal	
	Types of gases: Primary Plasma Gas – used to create the plasma arc	
	(Nitrogen, Argon, Hydrogen, Compressed air); Secondary Shielding Gas – used	









CSC/N0207	Manually cut metal materials using plasma arc
	to protect the cut metals from oxidation (CO <sub>2</sub> , Compressed Air)
	PC9. use the correct procedure for lighting, adjusting and extinguishing the arc
	PC10. use appropriate and safe procedures for handling and storing of gas cylinders
	PC11. prepare the work area for the cutting activities
	PC12. obtain the appropriate tools and equipment for the plasma arc cutting
	operations, and check that they are in a safe and usable condition
	Equipment: plasma power source; pilot arc ignition system; torch; portable
	straight line cutters; profile cutting machines; air filter with regulator; burner
	electrode; compressor; nozzle; electrode holder; contact tube; front cap; gas
	supply system with gauges; cooling system; earthing clamp; connecting leads
	and cables
	PC13. check that the plasma arc cutting equipment is correctly set up for the
	operations to be performed
	PC14. carry out correct measurements required using appropriate equipment and
	methods for planning the cut
	PC15. mark out the components for the required operations using appropriate tools
	and techniques where appropriate
	PC16. perform trial cut to check for cut defect
Carry out cutting	To be competent, the user/individual on the bob must be able to:
operations	PC17. operate the plasma cutting equipment to produce items/cut shapes to the
	dimensions and profiles as specified
	PC18. use the correct angles to cut and the right speed
	PC19. use various types of plasma arc cutting methods/techniques
	Cutting techniques: stand-off, circle cutting, profile cutting, edge, stenting
	hole, piercing technique
	PC20. perform various cutting operations correctly
	Cutting operations: down-hand straight cuts (freehand), making straight cuts
	(track guided), cutting regular shapes, cutting irregular shapes, making angled
	cuts, cutting chamfers, making radial cuts, gouging/flushing, bevelled edge –
	weld preparations, cutting out holes
	PC21. produce thermal cuts in various forms of material
	Forms: plate, rolled section, pipe/tube, solid bars
	PC22. produce cut profiles for various type of materials
	Materials type: mild steel; high alloy steel; stainless steel; aluminium and its
	alloys; other appropriate metal
	PC23. produce thermally-cut components which meet specified quality criteria
	Quality criteria: dimensional accuracy is within the tolerances specified on
	the drawing/specification, or within +/- 1mm; angled/radial cuts are within
	specification requirements; cuts are clean and smooth and free from flutes;
	no drags









CSC/N0207	Manually cut metal materials using plasma arc
	PC24. detect and correct defects in cut
	PC25. leave the work area in a safe and tidy condition on completion of the cutting activities
Test for quality	To be competent, the user/individual on the job must be able to: PC26. check that the finished components meet the required standard PC27. use appropriate methods and equipment to check the quality, and that all dimensional and geometrical aspects of the cut material are to the specification PC28. identify various cutting defects Defects: grooved, fluted or ragged cuts, poor draglines, rounded edges,
	tightly adhering slag, dross, burr, distortion
Deal with contingencies	To be competent, the user/individual on the job must be able to: PC29. report any difficulties or problems that may arise with the cutting activities, and carry out any agreed actions PC30. detect equipment malfunctions and deal with them appropriately PC31. 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 PC32. shut down and make safe the cutting equipment on completion of the cutting activities or during an emergency PC33. follow standard emergency procedures in case of emergencies
Knowledge and Unders	standing (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. job relevant legislation, standards, policies, and procedures followed in the company KA2. key purpose of the organization KA3. department structure and hierarchy protocols KA4. work flow and own role in the workflow
	KA5. dependencies and interdependencies in the workflow
B. Technical Knowledge	<ul> <li>KA6. support functions and types of support available for incumbents in this role</li> <li>The user/individual on the job needs to know and understand:</li> <li>KB1. types of fire extinguishers and their suitable uses in case of gas cutting related fires</li> <li>KB2. specific safety precautions to be taken when working with plasma arc cutting equipment in a fabrication environment</li> <li>Safety precautions: safety from trailing hoses; safety from arc; appropriate fume and gases extraction/control measures; safety from spatter and hot metal (distance, PPE, proper handling and placement); protection from live and other electrical components, including insulation, proper earthing, proper loading, etc.; adequate lighting; appropriate personal protective</li> </ul>









CSC/N0207 Manually cut metal materials using plasma	arc
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- equipment; protection of self and others from the effects of the arc; cylinder safety; safety measures including nozzles. valves, flowmeter, flashback arrestors, etc.; safety measures for elevated and trench working KB3. personal protective clothing and equipment (PPE) to be worn when working with plasma cutting equipment Personal protective equipment: suitable aprons, gloves, safety boots, correctly fitting overalls, suitable eye shields/goggles, ear plugs or covering KB4. hazards associated with carrying out plasma arc cutting activities and how they can be minimized KB5. safe working practices and procedures for using plasma equipment KB6. principles of plasma arc cutting Principles: plasma an ionized gas that conducts electricity; plasma is created by adding energy to an electrically neutral gas; gas is compressed air, energy is electricity; more electrical energy added, the hotter the plasma; plasma cutting machines constrict the arc and force it through a concentrated area arc with higher amperage, the arc becomes hotter and more capable of
  - (the nozzle); pilot arc, cutting arc; increasing air pressure and intensifying the blasting through thicker metals and blowing away the cuttings and it does not require a pre-heat cycle; using an inext gas for pressure prevents the cut areas from oxidizing; for most ferrous metals, compressed air is used; for nonferrous metals the inert gas is essential to prevent oxidation; different plasma tip diameters are used for different cutting thickness; has smaller heat affected zone (HAZ) preventing the area around the cut from warping and minimizes paint damage; provides gouging and piercing capabilities; minimal cleanup required, small and more precise kerf (width of the cut); cuts any type of electrically conductive metals including aluminum, copper, brass and stainless steel
  - common terminology used in plasma cutting KB7.
- KB8. procedure for obtaining the required drawings, job instructions and other related specifications
- KB9. how to use and extract information from engineering drawings and related specifications, workpiece reference points and system of tolerances
- KB10. various types of plasma arc cutting equipment Types: transferred, non-transferred (welding)
- KB11. various components of the cutting equipment and types of consumables used
  - Consumables: electrode, gases, tips, cups
- KB12. construction of the cutting torch
- KB13. types of plasma arc gases used Types of gases: Primary Plasma Gas – used to create the plasma arc









CSC/N0207	Manually cut metal materials using plasma arc
	(Nitrogen, Argon, Hydrogen, Compressed air); Secondary Shielding Gas – used
	to protect the cut metals from oxidation (CO <sub>2</sub> , Compressed Air)
	KB14. accessories that can be used with handheld gas cutting equipment to aid
	cutting operations (such as cutting guides, templates)
	KB15. types of regulators such as low- and high-pressure, and single- and two-stage
	KB16. nozzle type as per type and thickness of base materials
	KB17. preparations prior to cutting (including checking connections for leaks, setting
	gas pressures, setting up the material/workpiece, and checking the
	cleanliness of materials used)
	KB18. holding methods that are used to aid plasma cutting, and the equipment that
	can be used
	KB19. correct procedure for lighting, cutting and extinguishing the arc
	KB20. importance of following the correct procedure for lighting, cutting and
	extinguishing an arc
	KB21. importance of torch to arc distance in relation to thickness of materials, types
	of torches and gases
	Torches: air plasma, oxygen injected, duel gas
	KB22. factors that impact nozzle life
	KB23. double arcing and its impact
	KB24. problems that can occur with plasma cutting, and how they can be avoided
	(including causes of distortion during plasma cutting and methods of
	controlling distortion)
	KB25. effects of oil, grease, scale or dirt on the cutting process
	KB26. quality parameters for plasma cut materials
	Quality parameters: shape and length of the draglines; squareness; angle
	deviation; smoothness of the sides; sharpness of the top edges; amount of
	slag adhering to the metal
	KB27. causes of cutting defects, how to recognize them, and methods of correction
	and prevention
	KB28. gouging and back gouging principles, methods and procedures
	KB29. importance of leaving the work area in a safe and clean condition on
	completion of activities
	KB30. emergency procedures for electrical and other fires
	KB31. how to close down the cutting equipment safely and correctly
	KB32. purging tools and their function
Skills (S)	
A. Core Skills/	Reading Skills
Generic Skills	The user/ individual on the job needs to know and understand how to:
	SA1. read and interpret information correctly from various job specification









CSC/N0207	Manually cut metal materials using plasma arc			
	documents, health and safety instructions, memos, etc. applicable to the job			
	in English and/or local language			
	Writing Skills			
	The user/individual on the job needs to know and understand how to: SA2. fill up appropriate technical forms, process charts, activity logs as per			
	organizational format in English and/or local language			
	SA3. undertake numerical operations, geometry and calculations/ formulae (including addition, subtraction, multiplication, division, fractions and			
	decimals, percentages and proportions, simple ratios and averages)			
	SA4. use appropriate measuring techniques			
	SA5. use and convert imperial and metric systems of measurements			
	SA6. apply appropriate degree of accuracy to express numbers			
	SA7. use tolerance in terms of limits of size			
	SA8. check measurements, angles, orientation and slopes			
	SA9. types of reference lines such as tangent lines, datum lines, center lines and work points			
	SA10. check square of material using corner-to-corner dimensions and triangulation			
	(3-4-5) method			
	SA11. select and use tools and equipment such as measuring tapes, levels, squares,			
	protractors and dividers			
	SA12. ability to check dimensions of components			
	SA13. calculate the value of angles in a triangle			
	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and understand how to:			
	SA14. convey and share technical information clearly using appropriate language			
	SA15. check and clarify task-related information			
	SA16. liaise with appropriate authorities using correct protocol			
	SA17. communicate with people in respectful form and manner in line with			
	organizational protocol			
B. Professional Skills	Decision Making			
	NA			
	Plan and Organize			
	The user/individual on the job needs to know and understand how to:			
	SB1. plan, prioritize and sequence work operations as per job requirements			
	SB2. organize and analyze information relevant to work			
	SB3. basic concepts of shop-floor work productivity including waste reduction,			
	efficient material usage and optimization of time			
	Customer Centricity			









#### CSC/N0207 Manually cut metal materials using plasma arc

The user/individual on the job needs to know and understand how to:

- SB4. exercise restraint while expressing dissent and during conflict situations
- SB5. avoid and manage distractions to be disciplined at work
- SB6. manage own time for achieving better results
- SB7. work in a team in order to achieve better results
- SB8. identify and clarify work roles within a team
- SB9. communicate and cooperate with others in the team for better results
- SB10. seek assistance from fellow team members

#### **Problem Solving**

The user/individual on the job needs to know and understand how to:

- SB11. identify problems with work planning, procedures, output and behavior and their implications
- SB12. prioritize and plan for problem solving
- SB13. communicate problems appropriately to others
- SB14. identify sources of information and support for problem solving
- SB15. seek assistance and support from other sources to solve problems
- SB16. identify effective resolution techniques
- SB17. select and apply resolution techniques
- SB18. seek evidence for problem resolution

#### **Analytical Thinking**

The user/individual on the job needs to know and understand how to:

- SB19. undertake and express new ideas and initiatives to others
- SB20. modify work plan to overcome unforeseen difficulties or developments that occur as work progresses
- SB21. participate in improvement procedures including process, quality and internal/external customer/supplier relationships
- SB22. enhance one's competencies in new and different situations and contexts to achieve more

#### **Critical Thinking**

The user/individual on the job needs to know and understand how to:

- SB23. participate in on-the-job and other learning, training and development interventions and assessments
- SB24. clarify task related information with appropriate personnel or technical adviser
- SB25. seek to improve and modify own work practices
- SB26. maintain current knowledge of application standards, legislation, codes of practice and product/process developments









# Manually cut metal materials using plasma arc

# **NOS Version Control**

NOS Code	CSC/N0207		
Credits	TBD	Version number	1.0
Industry	Capital Goods	Drafted on	24/04/2014
Industry Sub-sector	<ol> <li>Machine Tools</li> <li>Dies, Moulds and Press Tools</li> <li>Plastics         Manufacturing         Machinery</li> <li>Textile         Manufacturing         Machinery</li> <li>Process Plant         Machinery</li> <li>Electrical and Power         Machinery</li> <li>Light Engineering         Goods</li> </ol>	Last reviewed on	24/11/2017
Occupation	Welding and Cutting	Next review date	24/11/2021



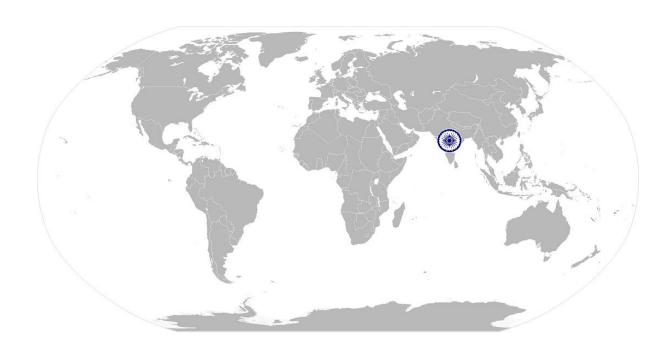






Use basic health and safety practices at the workplace

# National Occupational Standard



# **Overview**

This unit covers health, safety and security at the workplace. This includes procedures and practices that candidates need to follow to help maintain a healthy, safe and secure work environment.









# CSC/N1335 Use basic health and safety practices at the workplace

Unit Code	CSC/N1335		
Unit Title (Task)	Use basic health and safety practices at the workplace		
Description	This OS unit is about knowledge and practices relating to health, safety and security that candidates need to use in the workplace. It covers responsibilities towards self, others, assets and the environment.		
Scope	This unit/task covers the following:		
	<ul> <li>Health and safety</li> <li>Fire safety</li> <li>Emergencies, rescue and first-aid procedure</li> </ul>		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Health and safety	To be competent, the user/individual on the job must be able to: PC1: use protective clothing/equipment for specific tasks and work conditions Protective clothing: leather or asbestos gloves, flame proof aprons, flame proof overalls buttoned to neck, cuffless (without folds), trousers, reinforced footwear, helmets/hard hats, cap and shoulder covers, ear defenders/plugs, safety boots, knee pads, particle masks, glasses/goggles/visors Equipment: hand shields, machine guards, residual current devices, shields, dust sheets, respirator PC2. state the name and location of people responsible for health and safety in the workplace PC3. state the names and location of documents that refer to health and safety in the workplace PC4. identify job-site hazardous work and state possible causes of risk or accident in the workplace Hazards: sharp edged and heavy tools; heated metals; oxyfuel and gas cylinders; welding radiation; hazardous surfaces (sharp, slippery, uneven, chipped, broken, etc.); hazardous substances(chemicals, gas, oxy-fuel, fumes, dust, etc.); physical hazards(working at heights, large and heavy objects and machines, sharp and piercing objects, tolls and machines, intense light, load noise, obstructions in corridors, by doors, blind turns, noise, over stacked shelves and packages, etc.) electrical hazards (power supply and points, loose and naked cables and wires, electrical machines and appliances, etc.) Possible causes of risk and accident: physical actions; reading; listening to and giving instructions; inattention; sickness and incapacity (such as drunkenness); health hazards (such as untreated injuries and contagious		





harness, fall arrestors, etc.





#### CSC/N1335 Use basic health and safety practices at the workplace

illness)

PC5.

- carry out safe working practices while dealing with hazards to ensure the safety of self and others Safe working practices: using protective clothing and equipment; putting up and reading safety signs; handle tools in the correct manner and store and maintain them properly; keep work area clear of clutter, spillage and unsafe object lying casually; while working with electricity take all electrical precautions like insulated clothing, adequate equipment insulation, use of control equipment, dry work area, switch off the power supply when not required, etc.; safe lifting and carrying practices; use equipment that is working properly and is well maintained; take due measures for safety while working in confined places, trenches or at heights, etc. including safety
- PC6. state methods of accident prevention in the work environment of the job role Methods of accident prevention: training in health and safety procedures; using health and safety procedures; use of equipment and working practices (such as safe carrying procedures); safety notices, advice; instruction from colleagues and supervisors
- state location of general health and safety equipment in the workplace PC7. General health and safety equipment: fire extinguishers; first aid equipment; safety instruments and clothing; safety installations (eg fire exits, exhaust fans)
- PC8. inspect for faults, set up and safely use steps and ladders in general use Ladder faults: corrosion of metal components, deterioration, splits and cracks timber components, imbalance, loose rungs, missing/unfixed nuts or bolts,
  - Ladders set up: firm/level base, clip/lash down, leaning at the correct angle, etc.
- PC9. work safely in and around trenches, elevated places and confined areas
- PC10. lift heavy objects safely using correct procedures
- PC11. apply good housekeeping practices at all times Good housekeeping practices: clean/tidy work areas, removal/disposal of waste products, protect surfaces
- PC12. identify common hazard signs displayed in various areas Various areas: on chemical containers; equipment; packages; inside buildings; in open areas and public spaces, etc.
- PC13. retrieve and/or point out documents that refer to health and safety in the workplace
  - Documents: fire notices, accident reports, safety instructions for equipment and procedures, company notices and documents, legal documents (eg









CSC/N1335 Use basic health and safety practices at the workplace

To be competent, the user/individual on the job must be able to: PC14. use the various appropriate fire extinguishers on different types of fires correctly Types of fires: Class A: eg. ordinary solid combustibles, such as wood, paper, cloth, plastic, charcoal, etc.; Class B: flammable liquids and gases, such as gasoline, propane, diesel fuel, tar, cooking oil, and similar substances; Class C: eg. electrical equipment such as appliances, wiring, breaker panels, etc. (These categories of fires become Class A, B, and D fires when the electrical equipment that initiated the fire is no longer receiving electricity); Class D: combustible metals such as magnesium, titanium, and sodium (These fires burn at extremely high temperatures and require special suppression agents) PC15. demonstrate rescue techniques applied during fire hazard PC16. demonstrate good housekeeping in order to prevent fire hazards PC17. demonstrate the correct use of a fire extinguisher  To be competent, the user/individual on the job must be able to: PC18. demonstrate how to free a person from electrocution PC19. administer appropriate first aid to victims where required eg. in case of bleeding, burns, choking, electric sight, poisoning etc. PC20. demonstrate basic techniques of bandaging PC21. respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments PC22. perform and organize loss minimization or rescue activity during an accident in real or simulated environments PC23. 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 PC24. demonstrate the artificial respiration and the CPR Process PC25. participate in emergency procedures Emergency procedures: raising alarm, safe/efficient, evacuation, correct means of escape, correct assembly point, roll call, correct return to work PC26. complete a written accident/incident report or dictate a report to another person, and send report t	CSC/N1335 Use	basic health and safety practices at the workplace		
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means of escape, correct assembly point, roll call, correct return to work PC26. complete a written accident/incident report or dictate a report to another person, and send report to person responsible Incident Report includes details of: name, date/time of incident, date/time of report, location, environment conditions, persons involved, sequence of events, injuries sustained, damage sustained, actions taken, witnesses, supervisor/manager notified		PC25. participate in emergency procedures		
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supervisor/manager notified		report, location, environment conditions, persons involved, sequence of		
		events, injuries sustained, damage sustained, actions taken, witnesses,		
DC27 demonstrate compat mothed to make injured models and others during an		supervisor/manager notified		
PC27. demonstrate correct method to move injured people and others during an		PC27. demonstrate correct method to move injured people and others during an		
emergency		emergency		









CSC/N1335 Use basic health and safety practices at the workplace

	basic health and safety practices at the workplace
Knowledge and Unders	standing (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand:  KA1. names (and job titles if applicable), and where to find, all the people responsible for health and safety in a workplace  KA2. names and location of documents that refer to health and safety in the workplace
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. meaning of "hazards" and "risks"  KB2. health and safety hazards commonly present in the work environment and related precautions  KB3. possible causes of risk, hazard or accident in the workplace and why risk and/or accidents are possible  KB4. possible causes of risk and accident  Possible causes of risk and accident  Possible causes of risk and accident: physical actions; reading; listening to and giving instructions; inattention; sickness and incapacity (such as drunkenness); health hazards (such as untreated injuries and contagious illness)  KB5. methods of accident prevention: training in health and safety procedures; using health and safety procedures;; using health and safety procedures); safety notices, advice; instruction from colleagues and supervisors  KB6. safe working practices when working with tools and machines  KB7. safe working practices while working at various hazardous sites  KB8. where to find all the general health and safety equipment in the workplace  KB9. various dangers associated with the use of electrical equipment  KB10. preventative and remedial actions to be taken in the case of exposure to toxic materials  Exposure: ingested, contact with skin, inhaled  Preventative action: ventilation, masks, protective clothing/ equipment);  Remedial action: immediate first aid, report to supervisor  Toxic materials: solvents, flux, lead  KB11. importance of using protective clothing/equipment while working  KB12. precautionary activities to prevent the fire accident  KB13. various causes of fire  Causes of fires: heating of metal; spontaneous ignition; sparking; electrical heating; loose fires (smoking, welding, etc.); chemical fires; etc.  KB14. techniques of using the different fire extinguishers









CSC/N1335 Use	basic health and safety practices at the workplace				
	KB15. different methods of extinguishing fire				
	KB16. different materials used for extinguishing fire				
	Materials: sand, water, foam, CO <sub>2</sub> , dry powder				
	KB17. rescue techniques applied during a fire hazard				
	KB18. various types of safety signs and what they mean				
	KB19. appropriate basic first aid treatment relevant to the condition eg. shock,				
	electrical shock, bleeding, breaks to bones, minor burns, resuscitation,				
	poisoning, eye injuries				
	KB20. content of written accident report				
	KB21. potential injuries and ill health associated with incorrect manual handing				
	KB22. safe lifting and carrying practices				
	KB23. personal safety, health and dignity issues relating to the movement of a				
	person by others				
	KB24. potential impact to a person who is moved incorrectly				
Skills (S)					
A. Core Skills/	Reading Skills				
Generic Skills	The user/ individual on the job needs to know and understand how to:				
	SA1. read and comprehend basic contents read labels, charts, signages				
	SA2. read and comprehend basic English to read manuals of operations				
	SA3. read an accident/incident report in local language or English				
	Writing Skills				
	The user/individual on the job needs to know and understand how to:				
	SA4. write an accident/incident report in local language or English				
	Oral Communication (Listening and Speaking skills)				
	The user/individual on the job needs to know and understand how to:				
	SA5. question coworkers appropriately in order to clarify instructions and other				
	issues				
D D ( )	SA6. give clear instructions to coworkers, subordinates others				
B. Professional Skills	Decision Making				
	The user/individual on the job needs to know and understand how to:				
	SB1. make appropriate decisions pertaining to the concerned area of work with				
	respect to intended work objective, span of authority, responsibility, laid				
	down procedure and guidelines  Plan and Organize				
	The user/individual on the job needs to know and understand how to:				
	SB2. plan and organize their own work schedule, work area, tools, equipment and				
	materials to maintain decorum and for improved productivity				
	Customer Centricity				









The user/individual on the job needs to know and understand how to:

- SB3. remain congenial while discussing and debating issues with co-workers
- SB4. follow appropriate protocols for communication based on situation, hierarchy, organizational culture and practice
- SB5. ask for, provide and receive required assistance where possible to ensure achievement of work related objectives
- SB6. thank coworkers for any assistance received
- SB7. offer appropriate respect based on mutuality and respect for fellow workmanship and authority

#### **Problem Solving**

The user/individual on the job needs to know and understand how to:

- SB8. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s)
- SB9. identify immediate or temporary solutions to resolve delays
- SB10. identify sources of support that can be availed of for problem solving for various kind of problems
- SB11. seek appropriate assistance from other sources to resolve problems
- SB12. report problems that you cannot resolve to appropriate authority

#### **Analytical Thinking**

The user/individual on the job needs to know and understand how to:

- SB13. identify cause and effect relations in their area of work
- SB14. use cause and effect relations to anticipate potential problems and their solution

#### **Critical Thinking**

NΑ









# CSC/N1335 Use basic health and safety practices at the workplace

# **NOS Version Control**

NOS Code	CSC/N1335		
Credits	TBD	TBD Version number 1.0	
Industry	Capital Goods	Drafted on	24/04/2014
Industry Sub-sector	<ol> <li>Machine Tools</li> <li>Dies, Moulds and Press Tools</li> <li>Plastics         <ul> <li>Manufacturing</li> <li>Machinery</li> </ul> </li> <li>Textile         <ul> <li>Manufacturing</li> <li>Machinery</li> </ul> </li> <li>Process Plant         <ul> <li>Machinery</li> </ul> </li> <li>Electrical and Power         <ul> <li>Machinery</li> </ul> </li> <li>Coods</li> </ol>	Last reviewed on	24/11/2017
Occupation	Welding and Cutting	Next review date	24/11/2021



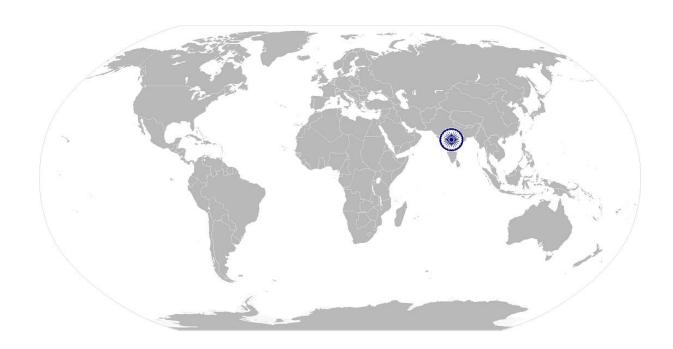






Work effectively with others

# National Occupational Standard



# **Overview**

This unit covers basic practices that improve effectiveness of working with others in an organizational set-up.









# Work effectively with others

Unit Code	CSC/N1336
Unit Title (Task)	Work effectively with others
	This unit covers basic etiquette and competencies that a candidate is required to possess and demonstrate in their behavior and interactions with others at the workplace. These cover areas such as communication etiquette, discipline, listening etc.
Scope	This unit/task covers the following:  • Work effectively with others
Performance Criteria (Po	C) w.r.t. the Scope
Element	Performance Criteria
Work effectively with others	To be competent, the user/individual on the job must be able to: PC1. accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required PC2. accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt PC3. give information to others clearly, at a pace and in a manner that helps them to understand PC4. display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible PC5. consult with and assist others to maximize effectiveness and efficiency in carrying out tasks PC6. display appropriate communication etiquette while working Communication etiquette: do not use abusive language; use appropriate titles and terms of respect; do not eat or chew while talking (vice versa) etc. PC7. display active listening skills while interacting with others at work PC8. use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism PC9. demonstrate responsible and disciplined behaviors at the workplace Disciplined behaviors: e.g. punctuality; completing tasks as per given time and standards; not gossiping and idling time; eliminating waste, honesty, etc. PC10. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict
Knowledge and Underst	
A. Organizational Context (Knowledge of the company /	The user/individual on the job needs to know and understand:  KA1. legislation, standards, policies, and procedures followed in the company relevant to own employment and performance conditions  KA2. reporting structure, inter-dependent functions, lines and procedures in the









CSC/N1336	Work effectively with others		
organization and	work area		
its processes)	KA3. relevant people and their responsibilities within the work area		
	KA4. escalation matrix and procedures for reporting work and employment related		
	issues		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. various categories of people that one is required to communicate and co-		
	ordinate with in the organization		
	KB2. importance of effective communication in the workplace		
	KB3. importance of teamwork in organizational and individual success		
	KB4. various components of effective communication		
	KB5. key elements of active listening		
	KB6. value and importance of active listening and assertive communication		
	KB7. barriers to effective communication		
	KB8. importance of tone and pitch in effective communication		
	KB9. importance of avoiding casual expletives and unpleasant terms while		
	communicating professional circles		
	KB10. how poor communication practices can disturb people, environment and		
	cause problems for the employee, the employer and the customer		
	KB11. importance of ethics for profession success		
	KB12. importance of discipline for professional success		
	KB13. what constitutes disciplined behavior for a working professional		
	KB14. common reasons for interpersonal conflict		
	KB15. importance of developing effective working relationships for professional		
	success		
	KB16. expressing and addressing grievances appropriately and effectively		
	KB17. importance and ways of managing interpersonal conflict effectively		
Skills (S)			
A. Core Skills/	Reading Skills		
Generic Skills			
	The user/ individual on the job needs to know and understand how to:		
	SA1. read basic terms and terminologies to accurately interpret work related		
	documents, labels, supervisor instructions in the local language		
	SA2. read and interpret accurate information from various relevant work		
	instructions and records		
	Writing Skills		
	The user/ individual on the job needs to know and understand how to:		
	SA3. write clear and legible notes to self, colleagues and seniors to pass messages,		
	keep records, prepare to-do lists, take down instructions		
	SA4. write basic numbers, quantities and work related terminology for operational		
	requirements in the local language		









CSC/N1336	Work effectively with others			
	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and understand how to:  SA5. interact with the supervisor appropriately (correct protocol and manner of speaking) in order to understand the basic requirements of the product, production plans and other associated requirements			
	SA6. give clear instructions to co-workers about the type of output required and answer queries			
	SA7. display active listening skills while interacting with co-workers and other in the workplace			
B. Professional Skills	Decision Making			
	NA			
	Plan and organize			
	The user/individual on the job needs to know and understand how to:			
	SB1. use appropriate planning to maintain a smooth relationship with fellow team			
	members			
	SB2. take steps within one's limits of authority to initiate modification in plan if the circumstances require it			
	Customer centricity			
	The user/individual on the job needs to know and understand how to:  SB3. check that work meets customer requirements  SB4. deliver consistent and reliable service to internal and external customers			
	Problem Solving			
	The user/individual on the job needs to know and understand how to:  SB5. work with co-workers and supervisor to resolve any issues that threaten			
	disruption, increase risk, cause delays or under-achievement of quality and targets as per the planned schedule			
	Analytical Thinking			
	NA			
	Critical Thinking			
	NA			









# Work effectively with others

# **NOS Version Control**

NOS Code	CSC/N1336		
Credits	TBD	Version number	1.0
Industry	Capital Goods	Drafted on	24/04/2014
Industry Sub-sector	<ol> <li>Machine Tools</li> <li>Dies, Moulds and Press Tools</li> <li>Plastics         Manufacturing         Machinery</li> <li>Textile         Manufacturing         Machinery</li> <li>Process Plant         Machinery</li> <li>Electrical and Power         Machinery</li> <li>Light Engineering         Goods</li> </ol>	Last reviewed on	24/11/2017
Occupation	Welding and Cutting	Next review date	24/11/2021



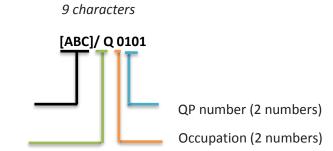




## **Annexure**

## **Nomenclature for QP and NOS**

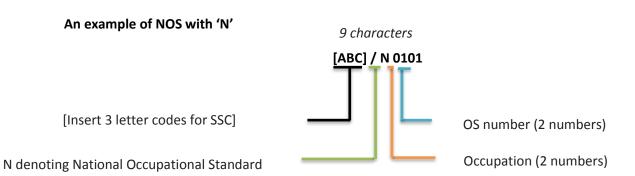
## **Qualifications Pack**



[Insert 3 letter codes for SSC]

Q denoting Qualifications Pack

## **Occupational Standard**



Back to top...







The following acronyms/ codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Machine Tools	01-13
Dies, Moulds and Press Tools	01-13
Plastic Manufacturing Machinery	01-13
Textile Manufacturing Machinery	01-13
Process Plant Machinery	01-13
Electrical and Power Machinery	01-13
Light Engineering Goods	01-13

Sequence	Description	Example
Three letters	Capital Goods	CSC
Slash	/	/
Next letter	Whether <b>Q</b> P or NOS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01







#### **Criteria For Assessment Of Trainees**

Job Role: Plasma Cutter - Manual

**Qualification Pack**: CSC/Q0207

**Sector Skill Council:** Capital Goods Skill 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. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
- 4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
- 5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
- 6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.
- 7. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

Compulsory NOS Total Marks: 300				Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical
CSC/N0207 Manually cut metal materials	PC1.work safely at all times, complying with health and safety legislation, regulations and other relevant guidelines		3	1	2
using plasma arc	PC2.take necessary safety precautions for plasma cutting operations including equipment, processes and checks		3	1	2
	PC3.interpret cutting procedure data sheets specifications		3	1	2
	PC4.check regulators, hoses and check that valves are securely connected and free from leaks and damage		3	1	2
	PC5.check equipment is calibrated and approved for use	100	2	0	2
	PC6.check/fit the correct nozzle to the torch	1	3	1	2
	PC7.match correct tips and cups to the torch as per requirement and manufacturer's equipment instructions		2	0	2
	PC8.set the amperage and gas pressure as per metal thickness, metal type, and type of gas		2	0	2
	PC9.use the correct procedure for lighting, adjusting and extinguishing the arc		3	1	2



# Qualifications Pack for Plasma Cutter - Manual





PC10. use appropriate and safe procedures for handling and storing of gas cylinders PC11. prepare the work area for the cutting activities PC12. obtain the appropriate tools and equipment for the plasma arc cutting operations, and check that they are in a safe and usable condition PC13. check that the plasma arc cutting equipment is correctly set up for the operations to be performed PC14. carry out correct measurements required using appropriate equipment and methods for planning the cut PC15. where appropriate, mark out the components for the required operations, using appropriate tools and techniques PC16. perform trial cut to check for cut defect PC17. operate the plasma cutting equipment to produce items/cut shapes to the dimensions and profiles as specified PC18. use various types of plasma arc cutting methods/techniques PC19. use various types of plasma arc cutting methods/techniques PC20. perform various cutting operations correctly PC21. produce thermal cuts in various forms of material Forms: plate, rolled section, pipe/tube, solid bars PC22. produce cut profiles for various type of materials Materials type: mild steet, high alloy steet; stainless steet; aluminium and its alloys; other appropriate metal PC25. Leave the work area in a safe and tidy condition on completion of the cutting activities PC25. Leave the work area in a safe and tidy condition on completion of the cutting activities PC27. produce thermally-cut components which meet specified quality criteria PC27. Leave appropriate methods and equipment to check the quality, and that all dimensional and geometrical aspects of the cut material are to the specification PC28. Identify various cutting defects PC29. report any difficulties or problems that may arise with the cutting activities, and carry out any agreed actions PC30. detect equipment malfunctions and deal with them appropriately PC31. Eal promptly and effectively with problems within their control, and seek help and guidance from the relevant people if they have problems that they ca					
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PC17.operate the plasma cutting equipment to produce items/cut shapes to the dimensions and profiles as specified  PC18.use the correct angles to cut and the right speed PC19.use various types of plasma arc cutting methods/techniques  PC20.perform various cutting operations correctly PC21.produce thermal cuts in various forms of material Forms: plate, rolled section, pipe/tube, solid bars PC22.produce cut profiles for various type of materials Materials type: mild steel; high alloy steel; stainless steel; aluminium and its alloys; other appropriate metal  PC23.produce thermally-cut components which meet specified quality criteria PC24.detect and correct defects in cut PC25.leave the work area in a safe and tidy condition on completion of the cutting activities PC26.check that the finished components meet the required standard PC27.use appropriate methods and equipment to check the quality, and that all dimensional and geometrical aspects of the cut material are to the specification PC28.identify various cutting defects PC29.report any difficulties or problems that may arise with the cutting activities, and carry out any agreed actions PC30.detect equipment malfunctions and deal with them appropriately PC31.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 PC32.shut down and make safe the cutting equipment on	the required operations, using appropriate tools and		3	1	2
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PC19.use various types of plasma arc cutting methods/techniques  PC20.perform various cutting operations correctly  PC21.produce thermal cuts in various forms of material Forms: plate, rolled section, pipe/tube, solid bars  PC22.produce cut profiles for various type of materials Materials type: mild steel; high alloy steel; stainless steel; aluminium and its alloys; other appropriate metal  PC23.produce thermally-cut components which meet specified quality criteria  PC24.detect and correct defects in cut  PC25.leave the work area in a safe and tidy condition on completion of the cutting activities  PC26.check that the finished components meet the required standard  PC27.use appropriate methods and equipment to check the quality, and that all dimensional and geometrical aspects of the cut material are to the specification  PC28.identify various cutting defects  PC29.report any difficulties or problems that may arise with the cutting activities, and carry out any agreed actions  PC30.detect equipment malfunctions and deal with them appropriately  PC31.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  PC32.shut down and make safe the cutting equipment on	items/cut shapes to the dimensions and profiles as		5	1	4
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Forms: plate, rolled section, pipe/tube, solid bars  PC22.produce cut profiles for various type of materials Materials type: mild steel; high alloy steel; stainless steel; aluminium and its alloys; other appropriate metal  PC23.produce thermally-cut components which meet specified quality criteria  PC24.detect and correct defects in cut  PC25.leave the work area in a safe and tidy condition on completion of the cutting activities  PC26.check that the finished components meet the required standard  PC27.use appropriate methods and equipment to check the quality, and that all dimensional and geometrical aspects of the cut material are to the specification  PC28.identify various cutting defects  PC29.report any difficulties or problems that may arise with the cutting activities, and carry out any agreed actions  PC30.detect equipment malfunctions and deal with them appropriately  PC31.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  PC32.shut down and make safe the cutting equipment on	PC20.perform various cutting operations correctly		4	1	3
Materials type: mild steel; high alloy steel; stainless steel; aluminium and its alloys; other appropriate metal  PC23.produce thermally-cut components which meet specified quality criteria  PC24.detect and correct defects in cut  PC25.leave the work area in a safe and tidy condition on completion of the cutting activities  PC26.check that the finished components meet the required standard  PC27.use appropriate methods and equipment to check the quality, and that all dimensional and geometrical aspects of the cut material are to the specification  PC28.identify various cutting defects  PC29.report any difficulties or problems that may arise with the cutting activities, and carry out any agreed actions  PC30.detect equipment malfunctions and deal with them appropriately  PC31.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  PC32.shut down and make safe the cutting equipment on	· ·		4	1	3
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with the cutting activities, and carry out any agreed actions  PC30.detect equipment malfunctions and deal with them appropriately  PC31.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  PC32.shut down and make safe the cutting equipment on			3	1	2
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PC31.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  PC32.shut down and make safe the cutting equipment on	PC30.detect equipment malfunctions and deal with them	<u> </u>	2	0	2
	PC31.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		3	1	2
emergency	completion of the cutting activities or during an		2	0	2



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	PC33.follow standard emergency procedures in case of emergencies		2	0	2
		Total	100	25	75
CSC/N1335 Use basic health and	PC1.use protective clothing/equipment for specific tasks and work conditions		4	1	3
safety practices at the workplace	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		4	2	2
	PC6.state methods of accident prevention in the work environment of the job role		3	2	1
	PC7.state location of general health and safety equipment in the workplace		5	2	3
	PC8.inspect for faults, set up and safely use steps and ladders in general use		5	2	3
	PC9.work safely in and around trenches, elevated places and confined areas	100	5	2	3
	PC10.lift heavy objects safely using correct procedures		4	2	2
	PC11.apply good housekeeping practices at all times		5	2	3
	PC12.identify common hazard signs displayed in various areas		3	1	2
	PC13.retrieve and/or point out documents that refer to health and safety in the workplace		4	1	3
	PC14.use the various appropriate fire extinguishers on different types of fires correctly		3	1	2
	PC15.demonstrate rescue techniques applied during fire hazard		3	1	2
	PC16.demonstrate good housekeeping in order to prevent fire hazards		4	1	3
	PC17.demonstrate the correct use of a fire extinguisher		4	1	3
	PC18.demonstrate how to free a person from electrocution		4	1	3
	PC19.administer appropriate first aid to victims where required eg. in case of bleeding, burns, choking, electric shock, poisoning etc.		3	1	2
	PC20.demonstrate basic techniques of bandaging		3	1	2
	PC21.respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments		3	1	2
	PC22.perform and organize loss minimization or rescue activity during an accident in real or simulated environments		3	1	2



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	PC23.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
	PC24.demonstrate the artificial respiration and the CPR Process		3	1	2
	PC25.participate in emergency procedures		4	1	3
	PC26.complete a written accident/incident report or dictate a report to another person, and send report to person responsible		3	1	2
	PC27.demonstrate correct method to move injured people and others during an emergency		4	2	2
		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		10	3	7
	PC2.accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt	100	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