



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- Operator - Conventional Turning

### SECTOR/S: CAPITAL GOODS

### SUB-SECTOR:

- 1. Machine Tools
- 2. Dies, Moulds and Press Tools
- 3. Plastic Manufacturing Machinery
- 4. Textile Manufacturing Machinery

**OCCUPATION:** Machining

**REFERENCE ID: CSC/Q0110** 

ALIGNED TO: NCO-2004/8211.15

**Brief Job Description:** Production of a range of components that combine a number of different features (eg. parallel, stepped and tapered diameters, drilled, bored and reamed holes, internal and external threads and special forms/ profiles) and continuously monitor the machining operations and make minor adjustments to settings if required.

**Personal Attributes:** Basic communication, numerical and computational abilities. Openness to learning, ability to plan and organise 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.

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





Qualifications Pack Code	(	CSC/Q0110	
Job Role	<b>Operator - Conventional Turning</b> [Applicable for National Scenarios]		
Credits	TBD	Version number	1.0
Sector	Capital Goods	Drafted on	24/03/2014
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	Machining	Next review date	24/11/2021
NSQC Clearance on	2	26/03/2015	

Job Details





Job Role	Operator - Conventional Turning
	Produce a range of components that combine different features
Role Description	by carrying out turning operations on different turning machines.
NSQF level	2
Minimum Educational Qualifications	10 <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
Applicable National Occupational Standards (NOS)	<ul> <li>Compulsory:</li> <li>1. <u>CSC/N0110 Operate conventional turning machines</u></li> <li>2. <u>CSC/N1335 Use basic health and safety practices at the workplace</u></li> <li>3. <u>CSC/N1336 Work effectively with others</u></li> </ul>
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.
Jobrole	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 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
S	CO <sub>2</sub>	Carbon Dioxide
E A	CPR	Cardiac Pulmonary Resuscitation
Acronyms	PPE	Personal Protective Equipment
CC	СММ	Coordinate Measuring Machine
<	ISO	International Organization For Standardization
	DTI	Dial Test Indicators

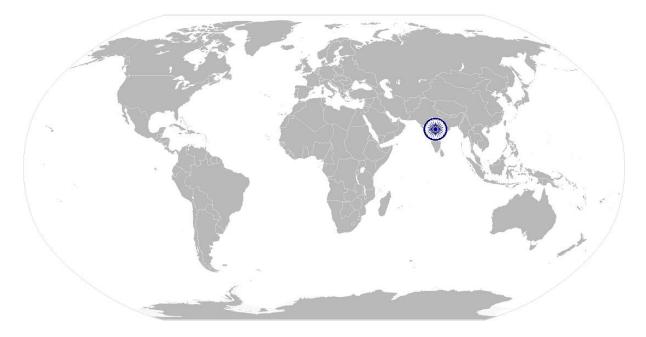






**Operate conventional turning machines** 

# National Occupational Standard



## **Overview**

This unit covers producing a range of metal and plastic components that combine different features by carrying out turning operations on turning machines such as centre lathes.







## Operate conventional turning machines

Unit Code	CSC/N0110
Unit Title (Task)	Operate conventional turning machines
Description	This unit is covers performing turning operations on machines such as centre lathes to produce a range of metal and plastic components that combine a number of different features (eg. parallel, stepped and tapered diameters, drilled, bored and reamed holes, internal and external threads, and special forms/profiles).
Scope	<ul> <li>This unit/task covers the following:</li> <li>Work safely</li> <li>Prepare for operating conventional turning machine</li> </ul>
	<ul> <li>Carry out operations on conventional turning machine</li> <li>Handle of unresolved problems</li> </ul>
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Work safely	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC1. comply with health and safety, environmental and other relevant regulations and guidelines at work</li> <li>PC2. adhere to procedures and guidelines for personal protective equipment (PPE) and other relevant safety regulations while performing turning operations Personal protective equipment: correctly fitting overalls; safety glasses; long hair is tied back or netted; removing any jewelry or other items that can become entangled in the machinery; covered shoes; face mask</li> <li>PC3. ensure work area is clean and safe from hazards</li> <li>PC4. ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition</li> <li>PC5. ensure that machine guards are in place and are correctly adjusted</li> <li>PC6. read and understand safety instructions, warning signs on the machine</li> </ul>
Prepare for operating conventional turning machine	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC7. check that all measuring equipment is within calibration date</li> <li>PC8. ensure availability of job specification from a valid source</li> <li>Job specifications: instructions from supervisor/person-incharge, operational drawings; approved sketches/illustrations</li> <li>Valid sources: supervisor, job instruction sheet/job card; work drawings and instructions</li> <li>PC9. read and establish job requirements from the job specification document (to include symbols and conventions to appropriate ISO standards in relation to work undertaken)</li> </ul>







CSC/N0110	Operate conventional turning machines
	Job specifications documents: instructions from supervisor/person-incharge,
	operational drawings; approved sketches/illustrations
	PC10. ensure that the incoming components used are free from foreign objects, dirt
	or other contamination
	PC11. prepare and maintain the work area as per procedure or operation
	specification
	PC12. plan to carry out the required turning activities and the sequence of
	operations as per specifications
	PC13. apply safe working practices and procedures at all times
	PC14. obtain all the appropriate materials, tools and equipment required for the
	turning operation
	PC15. confirm with the machine setter that the machine is ready for production
	PC16. prepare for the turning activities by mounting, positioning and correctly
	setting a range of workholding devices and cutting tools
	Workholding devices: chucks (three-jaw chucks with hard & soft jaws, four
	jaw chucks, collet chucks), drive plate and centres, fixtures, faceplates,
	magnetic or pneumatic devices, fixed steadies or travelling steadies, special
	purpose workholding devices (eg. wax chucks), tailstock, center and carrier
	Cutting tools: turning, facing, boring nurling, parting off, forming,
	recessing/grooving, chamfering, centre drills, twist/core drills, reamers,
	thread tools and dies
	PC17. seek any necessary instruction/training on the operation of the machine,
	where required
	PC18. hold components securely, without distortion
	PC19. ensure that machine settings are adjusted as and when required to maintain
	the required accuracy
Carry out operations	To be competent, the user/individual on the job must be able to:
on conventional	PC20. set and adjust the machine tool speeds and feeds to achieve the component
turning machine	specification
	PC21. mount and set the required workholding devices, workpiece and cutting tools
	PC22. operate the machine tool controls safely and correctly, in line with
	operational procedures
	PC23. control the machine in both hand and power modes for normal operations
	PC24. stop the machine in both normal and emergency situations correctly, and
	follow right procedure for restarting after an emergency
	PC25. use lathes and the accessories that consists of saddle, capstan/turret head,
	compound slide, tailstock, taper turning attachments, profile attachments,
	fixed and travelling steadies
	PC26. position and secure workholding devices to the machine spindle
	PC27. perform turning operations using various equipments to produce







CSC/N0110	Operate conventional turning machines
	components with various features
	Equipment: solid high-speed tooling, brazed tip tooling, interchangeable
	tipped tooling, indexable insert tooling
	Component features: flat faces, diameters (parallel, stepped, tapered,
	eccentric), holes (drilled, reamed, bored), chamfers, grooves/undercuts,
	profile forms, threads (internal, external), parting off, knurls or special
	finishes
	PC28. produce components as per given quality standards
	Components quality standards as per the process: e.g. components to be
	free from false tool cuts, burrs and sharp edges, general dimensional
	tolerance +/- 0.05mm, there must be one or more specific dimensional
	tolerances within +/- 0.1mm, surface finish 1.6μm, reamed holes within H7,
	screw threads medium fit (to suit mating part / gauge), angles within +/- 0.5
	degree, etc.
	PC29. achieve given production targets
	PC30. overcome the effects of backlash in machine slides and screws
	PC31. perform the technique of trial cut for checking dimensional accuracy
	PC32. apply roughing and finishing cuts, considering the effect on tool life, surface
	finish and dimensional accuracy
	PC33. use cutting fluids for different materials
	Different materials: steel/stainless steel, aluminum/aluminum alloys,
	copper/copper alloys, cast iron, plastic
	PC34. report any difficulties or problems that may arise with the turning activities,
	and carry out any agreed actions
	PC35. shut down the equipment to a safe condition on completion of the turning
	activities
	Safe conditions: correctly isolated; cleaning the machine; removing and
	disposing of waste correctly
	PC36. use range of equipment to check critical parameters
	Range of checking equipment: e.g. external micrometers, vernier/digital/dial
	calipers, dial test indicators (DTI), surface finish equipment (eg. comparison
	plates), steel rules, micrometers (internal, depth), depth verniers, gauges
	(slip, bore/hole), thread gauges (eg. ring, plug, profile), gauges (plug, ring,
	radius/profile), protractors, etc.
	Critical parameters: diameters (external, internal, eccentricity), parallelism,
	bore/hole size/fit, angle/taper, surface finish, linear dimensions (eg. lengths,
	depths), grooves/undercuts (eg. position, width, depth), concentricity, ovality,
	thread fit, straightness, squareness
	PC37. clamp the work piece in a chuck/work holding device
	PC38. perform the checks to be carried out on the components before removing







CSC/N0110	Operate conventional turning machines
	them from the machine, and the equipment needed for this activity
	PC39. ensure that the quality control procedures are used while operating the
	equipment
Handle of unresolved	To be competent, the user/individual on the job must be able to:
problems	PC40. refer the problem to a competent internal specialist if it cannot be resolved
	PC41. obtain help or advice from specialist if the problem is outside his/her area of
	competence or experience
Knowledge and Unders	standing (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. legislation, standards, policies, and procedures followed in the company
(Knowledge of the	relevant to own employment and performance conditions
company /	KA2. relevant health and safety requirements applicable in the work place
organization and	KA3. importance of working in clean and safe environment
its processes)	KA4. own job role and responsibilities and sources for information pertaining to
	employment terms, entitlements, job role and responsibilities
	KA5. reporting structure, inter-dependent functions, lines and procedures in the work area
	KA6. relevant people and their responsibilities within the work area
	KA7. escalation matrix and procedures for eporting work and employment related
	issues
	KA8. documentation and related procedures applicable in the context of
	employment and work
	KA9. importance and purpose of documentation in context of employment and
	work
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. where personal protective equipment to be worn can be obtained
	KB2. where to obtain the component drawings, specifications and/or job
	instructions required for them components to be machined
	KB3. hazards associated with the turning operations and how they can be minimized
	KB4. meaning and purpose of turning
	KB5. safety mechanisms on the machine, and the procedure for checking that they
	function correctly
	KB6. how to tighten all the bolts, cam locks or other securing devices securely
	KB7. importance of keeping the work area clean and tidy
	KB8. how to use metric systems of measurement
	KB9. main features of the lathes and the accessories that can be used
	Accessories: e.g. saddle, compound slide, tailstock, taper turning
	attachments, profile attachments, fixed and travelling stays, etc.
	KB10. classification and purpose of various accessories







KB11. tool materials (classification, properties and use)
KB12. how to identify the factors that affect the selection of cutting feeds and
speeds, and the depth of cut that can be taken
KB13. turning operations that can be performed using various equipment, and the
component features produced on metal and non-metal components
Equipment: solid high-speed tooling, brazed tip tooling, interchangeable
tipped tooling, indexable insert tooling
Component features: flat faces, diameters (parallel, stepped, tapered,
eccentric), holes (drilled, reamed, bored), chamfers, grooves/undercuts,
profile forms, threads (internal, external), parting off, knurls or special
finishes
KB14. effects of backlash in machine slides and screws, and how this can be
overcome
KB15. safety instructions and warning signs on the machine
KB16. types of cutting fluids and their properties
KB17. effects of clamping the workpiece in a chuck/workholding device, and how
this can cause distortion in the finished components
KB18. problems that can occur with the turning activities, and how these can be
overcome
KB19. correct equipment and procedure to use for checking critical quality
parameters
Range of checking equipment: e.g. external micrometers, vernier/digital/dial
calipers, dial test indicators (DTI), surface finish equipment (eg. comparison
plates), steel rules, micrometers (internal, depth), depth verniers, gauges
(slip, bore/hole), thread gauges (eg. ring, plug, profile), gauges (plug, ring,
radius/profile), protractors, etc.
Critical parameters: diameters (external, internal, eccentricity), parallelism,
bore/hole size/fit, angle/taper, surface finish, linear dimensions (eg. lengths,
depths), grooves/undercuts (eg. position, width, depth), concentricity, ovality,
thread fit, straightness, squareness
KB20. production cost, machine hour rate, raw material cost, tool cost, coolant cost,
overheads, cycle time, idle time, cost of machine idling, part rejection cost
KB21. selection of cutting tools, tool materials, chip breaker geometry, selecting
cutting parameters from tool catalogues, selecting coolant
KB22. relationship between surface finish, tool nose radius, speed and feed rate
KB23. impact of depth of cut on chatter, surface finish
KB24. extent of their own authority and to whom they should report if they have
problems that they cannot resolve
KB25. safe working practices and environmental regulations that must be observed
KB26. importance of reporting problems in a timely manner







CSC/N0110	Operate conventional turning machines
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 documents, health and safety instructions, memos, etc. applicable to the job in English and/or local language
	Writing Skills
	<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA2. fill up appropriate technical forms, process charts, activity logs as per organizational format in English and/or local language</li> <li>SA3. undertake numerical operations, and calculations/ formulae</li> <li>Numerical computations: addition, subtraction, multiplication, division, fractions and decimals, percentages and proportions, simple ratios and</li> </ul>
	<ul> <li>averages</li> <li>Algebraic expressions: represent numerical quantities using symbols, apply laws of precedence in the use of precedence (BODMAS)</li> <li>SA4. identify various basic, compound and solid shapes as per dimensions given Basic shapes: square, rectangle, triangle, circle</li> <li>Compound shapes: involving squares, rectangles, triangles, circles, semicircles, quadrants of a circle</li> </ul>
	<ul> <li>Solid shapes: cube, rectangular prism, cylinder</li> <li>SA5. use appropriate measuring techniques and units of measurement</li> <li>SA6. use appropriate units and number systems to express degree of accuracy</li> <li>Units and number systems representing degree of accuracy: decimals places,</li> <li>SA7. significant figures, fractions as a decimal quantity</li> <li>Oral Communication (Listening and Speaking skills)</li> </ul>
	<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA8. convey and share technical information clearly using appropriate language</li> <li>SA9. check and clarify task-related information</li> <li>SA10. liaise with appropriate authorities using correct protocol</li> <li>SA11. communicate with people in respectful form and manner in line with organizational protocol</li> </ul>
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,
	SB3. Dasic concepts of snop-floor work productivity including waste reduction,







N0110	Operate conventional turning machines efficient material usage and optimization of time
	Customer Centricity
	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







CSC/N0110 Operate conventional turning machines

# **NOS Version Control**

NOS Code		CSC/N0110	
Credits	TBD	Version number	1.0
Industry	Capital Goods	Drafted on	24/03/2014
Industry Sub-sector	<ol> <li>Machine Tools</li> <li>Dies, Moulds and PressTools</li> <li>Plastics Manufacturing Machinery</li> <li>Textile Manufacturing Machinery</li> <li>Process Plant Machinery</li> <li>Electrical and Power Machinery</li> <li>Electrical and Power Machinery</li> <li>Light Engineering Goods</li> </ol>	Last reviewed on	24/11/2017
Occupation	Machining	Next review date	24/11/2021







CSC/N1335 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></ul>
		<ul> <li>Emergencies, rescue and first-aid procedure</li> </ul>
	Performance Criteria(P	C) w.r.t. the Scope
	Element	Performance Criteria
	Health and safety	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC1. use protective clothing/equipment for specific tasks and work conditions Protective clothing: leather or asbeates 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</li> <li>Equipment: hand shields, machine guards, residual current devices, shields, dust sheets, respirator</li> <li>PC2. state the name and location of people responsible for health and safety in the workplace</li> <li>PC3. state the names and location of documents that refer to health and safety in the workplace</li> <li>PC4. identify job-site hazardous work and state possible causes of risk or accident in the workplace</li> <li>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 machines and appliances, etc.)</li> <li>Possible causes of risk and accident: physical actions; reading; listening to and giving instructions; inattention; sickness and incapacity (such as</li> </ul>







CSC/N1335 Use ba	asic health and safety practices at the workplace
	drunkenness); health hazards (such as untreated injuries and contagious
	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
	harness, fall arrestors, etc.
	PC6. state methods of accident prevention in the work environment of the job role
1	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
C.	colleagues and supervisors
1. A A A A A A A A A A A A A A A A A A A	PC7. state location of general health and safety equipment in the workplace
	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 crack
	timber components, imbalance, loose rungs, missing/ unfixed nuts or bolts,
	etc.
	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







CSC/N1335 Us	e basic health and safety practices at the workplace
	Documents: fire notices, accident reports, safety instructions for equipment
	and procedures, company notices and documents, legal documents (eg
	government notices)
Fire safety	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:
	<ul> <li>combustible metals such as magnesium, titanium, and sodium (These fires burn at extremely high temperatures and require special suppression agents)</li> <li>PC15. demonstrate rescue techniques applied during fire hazard</li> <li>PC16. demonstrate good housekeeping in order to prevent fire hazards</li> <li>PC17. demonstrate the correct use of a fire extinguisher</li> </ul>
Emergencies, rescue	To be competent, the user/individual on the job must be able to:
and first-aid	PC18. demonstrate how to free a person to nelectrocution
procedures	<ul> <li>PC19. administer appropriate first aid to victims where required eg. in case of bleeding, burns, choking, electric shock, poisoning etc.</li> <li>PC20. demonstrate basic techniques of bandaging</li> <li>PC21. respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments</li> </ul>
	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 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
	PC27. demonstrate correct method to move injured people and others during an



NOS	
National Occupational Standards	



	e basic health and safety practices at the workplace emergency
Knowledge and Unders	standing (K)
<ul> <li>A. Organizational</li> <li>Context</li> <li>(Knowledge of the company /</li> <li>organization and its processes)</li> <li>B. Technical</li> </ul>	<ul> <li>The user/individual on the job needs to know and understand:</li> <li>KA1. names (and job titles if applicable), and where to find, all the people responsible for health and safety in a workplace</li> <li>KA2. names and location of documents that refer to health and safety in the workplace</li> <li>The user/individual on the job needs to know and understand:</li> </ul>
Knowledge	<ul> <li>KB1. meaning of "hazards" and "risks"</li> <li>KB2. health and safety hazards commonly present in the work environment and related precautions</li> <li>KB3. possible causes of risk, hazard or accident in the workplace and why risk and/or accidents are possible</li> <li>KB4. possible causes of risk and accident</li> <li>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)</li> <li>KB5. 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</li> <li>KB6. safe working practices when working with tools and machines</li> <li>KB7. safe working practices when working at various hazardous sites</li> <li>KB8. where to find all the general health and safety equipment in the workplace</li> <li>KB9. various dangers associated with the use of electrical equipment</li> <li>KB10. preventative and remedial actions to be taken in the case of exposure to toxic materials</li> <li>Exposure: ingested, contact with skin, inhaled</li> <li>Preventative action: ventilation, masks, protective clothing/ equipment); Remedial action: immediate first aid, report to supervisor Toxic materials: solvents, flux, lead</li> <li>KB11. importance of using protective clothing/equipment while working</li> <li>KB21. precautionary activities to prevent the fire accident</li> <li>KB32. precautionary activities to prevent the fire accident</li> <li>KB33. various causes of fire</li> <li>Causes of fires: heating of metal; spontaneous ignition; sparking; electrical heating; loose fires (smoking, welding, etc.); chemical fires; etc.</li> </ul>



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CS(	C/N1335 Use	basic health and safety practices at the workplace		
		KB14. techniques of using the different fire extinguishers		
		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		
Ski	lls (S)	ND24. potential impact to a person who is moved mean early		
	Core Skills/	Reading Skills		
	Generic Skills			
		The user/individual on the job needs to know and understand how to:		
SA1. read and comprehend basic content to read labels, charts, signagesSA2. read and comprehend basic English to read manuals of operationsSA3. read an accident/incident report in local language or EnglishWriting SkillsThe user/individual on the job needs to know and understand how to:SA4. write an accident/incident report in local language or English				
		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:		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		
		SA6. give clear instructions to coworkers, subordinates others		
Β.	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		







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)
<ul> <li>SB9. identify immediate or temporary solutions to resolve delays</li> <li>SB10. identify sources of support that can be availed of for problem solving for various kind of problems</li> </ul>
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







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

# **NOS Version Control**

NOS Code		CSC/N1335	
Credits	TBD	Version number	1.0
Industry	Capital Goods	Drafted on	24/03/2014
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>Electrical and Power Machinery</li> <li>Light Engineering Goods</li> </ol>	Last reviewed on	24/11/2017
Occupation	Machining	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		
Description	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	<ul><li>This unit/task covers the following:</li><li>Work effectively with others</li></ul>		
Performance Criteria(P	C) w.r.t. the Scope		
Element	Performance Criteria		
Work effectively with others	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC1. receive information accurately and instructions from the supervisor and fellow workers, getting clarification where required</li> <li>PC2. pass information accurately to authorized persons who require it and within agreed timescale and confirm its receipt</li> <li>PC3. give information to others clearly, at a pace and in a manner that helps them to understand</li> <li>PC4. display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible</li> <li>PC5. consult with and assist others to maximize effectiveness and efficiency in carrying out tasks</li> <li>PC6. display appropriate communication etiquette while working</li> <li>Communication etiquette: do not use abusive language; use appropriate titles and terms of respect; do not eat or chew while talking (vice versa)etc.</li> <li>PC7. display active listening skills while interacting with others at work</li> <li>PC8. use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism</li> <li>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.</li> <li>PC10. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict</li> </ul>		
Knowledge and Unders	standing (K)		
A. Organizational Context (Knowledge of the company /	<ul> <li>The user/individual on the job needs to know and understand:</li> <li>KA1. legislation, standards, policies, and procedures followed in the company relevant to own employment and performance conditions</li> <li>KA2. reporting structure, inter-dependent functions, lines and procedures in the</li> </ul>		







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 us	er/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	

communicating professional circles

KB11. importance of ethics for professional 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 A. Core Skills/ **Reading Skills** 

KB8. importance of tone and pitch in effective communication

KB9. importance of avoiding casual expletives and unpleasant terms while

KB10. how poor communication practices can disturb people, environment and cause problems for the employee, the employer and the customer

Generic 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

Skills (S)



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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
	1







Work effectively with others

# **NOS Version Control**

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NOS Code		CSC/N1336			
Credits	TBD	Version number	1.0		
Industry	Capital Goods	Drafted on	24/03/2014		
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>Textile</li> <li>Manufacturing</li> <li>Machinery</li> <li>Process Plant</li> <li>Machinery</li> <li>Electrical and Power</li> <li>Machinery</li> <li>Light Engineering</li> <li>Goods</li> </ol>	Last reviewed on	24/11/2017		
Occupation	Machining	Next review date	24/11/2021		

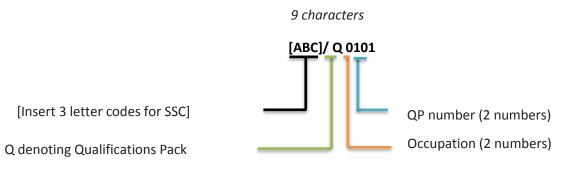




## Annexure

## Nomenclature for QP and NOS



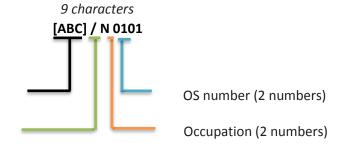


**Occupational Standard** 

An example of NOS with 'N'

[Insert 3 letter codes for SSC]

N denoting National Occupational Standard







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 <b>N</b> OS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01





## **Criteria For Assessment Of Trainees**

#### Job Role: Operator - Conventional Turning

#### Qualification Pack: CSC/Q0110

#### 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.

Total Marks: 30	Compulsory NOS Total Marks: 300				Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical	
CSC/N0110 Operate	PC1.comply with health and safety, environmental and other relevant regulations and guidelines at work		3	1	2	
conventional turning machines	PC2.adhere to procedures and guidelines for personal protective equipment (PPE) and other relevant safety regulations while performing turning operations		3	1	2	
	PC3.ensure work area is clean and safe from hazards		2	0	2	
	PC4.ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition	100	2	0	2	
	PC5.ensure that machine guards are in place and are correctly adjusted		2	0	2	
	PC6.read and understand safety instructions, warning signs on the machine		3	1	2	
	PC7.check that all measuring equipment is within calibration date		2	0	2	
	PC8.ensure availability of job specification from a valid source		2	0	2	





PC2.read and establish job requirements from the job specification document (to include symbols and conventions to appropriate ISO standards in relation to work undertaken)31PC10.ensure that the incoming components used are free from foreign objects, dirt or other contamination20PC11.prepare and maintain the work area as per procedure or operation specification31PC12.plan to carry out the required turning activities and the sequence of operations as per specifications31PC13.apply safe working practices and procedures at all times20PC14.dotain all the appropriate materials, tools and equipment required for the turning operation20PC15.comfirm with the machine setter that the machine is ready for production20PC15.seek any necessary instruction/training on the operation of the machine settings are adjusted as and when required to maintain the required documercy31PC20.set and adjust the machine tool speeds and feeds to achieve the component specification31PC22.operate the machine tool controls safely and correctly, in line with operational procedures31PC24.stop the machine in both normal and emergency situations correctly, and follow right procedure for restarting after an emergency31PC25.periorm turning operations and the accursory31PC26.position and secure workholding devices to the machine spindle20PC26.position and secure workholding devices to the machine spindle20PC26.position and secure workholding devices to the machine spindle <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
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machine spindle20PC27.perform turning operations using various equipments to produce components with various features52PC28.produce components as per given quality standards20	capstan/turret head, compound slide, tailstock, taper turning attachments, profile attachments, fixed and travelling		1	0	
to produce components with various features52PC28.produce components as per given quality standards20			2	0	
			5	2	
PC29.achieve given production targets 2 0			2	0	
	PC29.achieve given production targets		2	0	





	PC30.overcome the effects of backlash in machine slides and		2	1	2
	screws	-	3	1	2
	PC31.perform the technique of trial cut for checking dimensional accuracy		2	0	2
	PC32.apply roughing and finishing cuts, considering the effect on tool life, surface finish and dimensional accuracy		2	1	1
	PC33.use cutting fluids for different materials	-	3	1	2
	PC34.report any difficulties or problems that may arise with the turning activities, and carry out any agreed actions		3	1	2
	PC35.shut down the equipment to a safe condition on completion of the turning activities		1	0	1
	PC36.use range of equipment to check critical parameters	-	2	0	2
	PC37.clamp the work piece in a chuck/work holding device	-	2	0	2
	PC38.perform the checks to be carried out on the components before removing them from the machine, and the equipment needed for this activity		2	0	2
	PC39.ensure that the quality control procedures are used while operating the equipment		2	0	2
	PC40.refer the problem to a competent internal specialist if it cannot be resolved		3	1	2
	PC41.obtain help or advice from specialist if the problem is				
	outside his/her area of competence or experience		1	0	1
		Total	1 <b>100</b>	0 <b>21</b>	1 <b>79</b>
CSC/N1335 Use basic health and		Total			
	outside his/her area of competence or experience PC1.use protective clothing/equipment for specific tasks and	Total	100	21	79
basic health and safety practices	outside his/her area of competence or experience PC1.use protective clothing/equipment for specific tasks and work conditions PC2.state the name and location of people responsible for	Total	<b>100</b> 4	<b>21</b> 1	<b>79</b> 3
basic health and safety practices	outside his/her area of competence or experience PC1.use protective clothing/equipment for specific tasks and work conditions 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	Total	<b>100</b> 4 3	<b>21</b> 1 1	79 3 2
basic health and safety practices	outside his/her area of competence or experience PC1.use protective clothing/equipment for specific tasks and work conditions 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	-	100 4 3 3	<b>21</b> 1 1	79 3 2 2
basic health and safety practices	outside his/her area of competence or experience PC1.use protective clothing/equipment for specific tasks and work conditions 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 PC5.carry out safe working practices while dealing with	<b>Total</b>	100 4 3 3 5	21 1 1 1 2	79 3 2 2 3
basic health and safety practices	outside his/her area of competence or experience PC1.use protective clothing/equipment for specific tasks and work conditions 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 PC5.carry out safe working practices while dealing with hazards to ensure the safety of self and others PC6.state methods of accident prevention in the work	-	100 4 3 3 5 4	21 1 1 1 2 2	79 3 2 2 3 2
basic health and safety practices	outside his/her area of competence or experience PC1.use protective clothing/equipment for specific tasks and work conditions 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 PC5.carry out safe working practices while dealing with hazards to ensure the safety of self and others PC6.state methods of accident prevention in the work environment of the job role PC7.state location of general health and safety equipment in	-	100 4 3 3 5 4 3	21 1 1 2 2 2 2	79 3 2 2 3 2 1
basic health and safety practices	outside his/her area of competence or experience PC1.use protective clothing/equipment for specific tasks and work conditions 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 PC5.carry out safe working practices while dealing with hazards to ensure the safety of self and others PC6.state methods of accident prevention in the work environment of the job role PC7.state location of general health and safety equipment in the workplace PC8.inspect for faults, set up and safely use steps and ladders	-	100 4 3 3 5 4 3 5	21 1 1 2 2 2 2 2	79 3 2 2 3 2 1 3 3
basic health and safety practices	outside his/her area of competence or experience PC1.use protective clothing/equipment for specific tasks and work conditions 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 PC5.carry out safe working practices while dealing with hazards to ensure the safety of self and others PC6.state methods of accident prevention in the work environment of the job role PC7.state location of general health and safety equipment in the workplace PC8.inspect for faults, set up and safely use steps and ladders in general use PC9.work safely in and around trenches, elevated places and	-	100 4 3 3 5 4 3 5 5 5 5	21 1 1 2 2 2 2 2 2 2 2 2	79 3 2 2 3 3 2 1 3 3 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
	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.receive information accurately and instructions from the supervisor and fellow workers, getting clarification where required		10	3	7
	PC2.pass information accurately 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	100	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





	Total	100	30	70
PC10.escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict		10	3	7
PC9.demonstrate responsible and disciplined behaviors at the workplace		10	3	7
PC8.use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism		10	3	7
PC7.display active listening skills while interacting with others at work		10	3	7
PC6.display appropriate communication etiquette while working		10	3	7