



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- Sheet Metal Worker - Hand Tools and Manually Operated Machines

SECTOR/S: CAPITAL GOODS

SUB-SECTOR:

- 1. Machine Tools
- 2. Plastics Manufacturing Machinery
- 3. Textile Manufacturing Machinery

4. Process Plant Machinery

5. Electrical and Power Machinery

OCCUPATION: Fabrication, Fitting and Assembly

REFERENCE ID: CSC/Q0301

ALIGNED TO: NCO 2004/7213.10

Brief Job Description: It involves using appropriate tools and equipment to mark out the material for a range of features to be produced, using hand tools, portable power tools and simple machines to produce a variety of shapes, profiles and forms, producing simple sheet metal assemblies, using self-secured joints, thermal methods or mechanical fastening devices, inspecting the components after polishing operations and correcting faults.

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.





	Qualifications Pack Code	CSC/Q0301		
L	Job Role	Sheet Metal Worker - Hand Tools and Manually Operated Machines [Applicable for National Scenarios]		
2	Credits	TBD	Version number	1.0
	Sector	Capital Goods	Drafted on	24/03/2014
	Sub-sector	 Machine Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery 	Last reviewed on	24/11/2017
	Occupation	Fabrication, Fitting and Assembly	Next review date	24/11/2021
NSQC Clearance on			22/04/2015	





Job Role	Sheet Metal Worker - Hand Tools and Manually Operated Machines	
Role Description	Perform basic sheet metal (up to and including 3 mm) cutting, forming and assembly operations.	
NSQF level	2	
Minimum Educational Qualifications	8 th 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)	 Compulsory: 1. <u>CSC/N0301 Perform sheet metal cutting, forming and assembly operations</u> 2. <u>CSC/N1335 Use basic health and safety practices at the 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





key to learning ed in any work these include
roles.







National Occupational Standard



Overview

This unit covers cutting, forming and assembly operations for basic sheet metal (up to and including 3 mm) using hand tools and manually operated machine tools.





Unit Code	CSC/N0301	
Unit Title (Task)	Perform basic sheet metal cutting, forming and assembly operations	
Description	This unit basic sheet (up to and including 3 mm) metal working using hand tools and manually operated machine tools. This involves preparing for the sheet metal working activities by obtaining all the necessary job instructions, materials, tools, equipment; studies drawings and other specifications. The candidate will be expected to perform as per instructions under close supervision.	
Scope	 This unit/task covers the following: Work safely Prepare for performing sheet metal cutting, forming and assembly operations Mark out the components Carry out sheet metal cutting and forming operations Carry out sheet metal assembly operations Handle of unresolved problems 	
Performance Criteria(PC) w.r.t. the Scope		
Element	Performance Criteria	
Work safely	 To be competent, the user/individual on the job must be able to: PC1. comply with health and safety, environmental and other relevant regulations and guidelines at work and ensure process compliance PC2. adhere to procedures or systems in place for risk assessment, occupational standards, personal protective equipment (PPE) and other relevant occupational safety regulations PC3. work following laid down procedures and instructions PC4. ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition and are kept at secured location PC5. ensure that all measuring equipment are within calibration date and are approved for usage Measuring equipment and tools: external micrometers, vernier caliper, surface finish equipment (such as comparison plates), rules, squares, calipers, protractors, depth micrometers, depth verniers, feeler gauges, bore/hole gauges, slip gauges, radius/profile gauges, thread gauges, height gauges PC6. ensure work area is clean and safe from hazards before and after the job is completed 	
Prepare for performing sheet	To be competent, the user/individual on the job must be able to: PC7. establish job requirements from the supervisor or person in charge	







	n sneet metal cutting, forming and assembly operations
metal cutting,	Job requirements: materials or components required; dimensions;
forming and	tolerances; surface texture requirements; inspection requirements;
assembly operations	operations required; sequence and procedures; shape or profiles
operations	PC8. prepare and maintain the work area as per procedure or operation
	specification
	PC9. obtain production and consumables materials required for performing sheet
	metal cutting, forming and assembly operations as per specifications
	PC10. obtain tools and equipment required for performing sheet metal cutting,
	forming and assembly operations as per specifications
	Sheet metal cutting operations: hand sawing, band sawing, filing, drilling,
	chiselling, threading, scraping, manually operated lapping
	Sheet metal forming operations: planishing, raising, hollowing, flangings,
	'split and weld' method
	PC11. ensure that the components used are free from foreign objects, dirt or other
	contamination
Mark out the	To be competent, the user/individual on the job must be able to:
components	PC12. prepare the sheet metal for marking out by cleaning it, removing burrs and
	sharp edges and applying marking out medium
	PC13. mark out a range of sheet metal materials as per instructions received using
	specified marking out methods and techniques
	Sheet metal materials: hot rolled mild steel; cold rolled mild steel; coated
	mild steel (eg. primed, tinned, galvan(); stainless steel; aluminium
	Marking methods: direct marking using instruments, use of templates,
	tracing/transfer methods
	PC14. use appropriate marking out tools and equipment as per instructions received
	Marking tools: rules/tapes; straight edge; dividers/trammels; scribers;
	punches; squares; protractor; chalk, bluing or paint
	PC15. mark out specified features on the workpieces as per instructions received
	Features: datum/centre lines; square/rectangular profiles; circles; radial
	profiles; cutting and bending detail (including allowances); hole centering and
	outlining (such as circular or linear)
	PC16. obtain approval from supervisor or person in charge on marked out features
	and correct errors as per feedback received
Carry out sheet metal	To be competent, the user/individual on the job must be able to:
cutting and forming	PC17. carry out cutting operations to cut and shape the sheet metal materials as
operations	per instructions received
	Sheet metal cutting operations: hand sawing, band sawing, filing, drilling,
	chiselling, threading, scraping, manually operated lapping
	PC18. cut and finish material to the marked-out shape, using a range of hand tools
	Cutting hand tools: tin snips, hacksaw, hand power tools (such as drill,







CSC/N0301 Perform	n sheet metal cutting, forming and assembly operations
	nibbling, saw), trepanning, bench shears, files, pneumatic tools, thermal
	device, other specific tool
	PC19. cut and finish material to the marked-out shape, using a range of manually
	operated machine tools
	Manually operated machine cutting tools:guillotine, pillar drill,
	punch/cropping machine, nibbling machine, mechanical saw, rotary shears,
	fly press
	PC20. carry out forming operations, to produce sheet metal components that have
	various shapes as specified using forming hand tools and manually operated
	tools
	Sheet metal forming operations: planishing, raising, hollowing, flangings,
	'split and weld' method
	Shapes: bends or flanges; folds/safe edges; wired edges; swages; curved
	panels; tray/box sections; cylindrical sections; cowlings and rounded covers;
	square to round trunking
	Forming hand tools: hammers, mallets, stakes, formers, wooden blocks, sand
	bags, etc.
	Manually operated forming machine tools: bending/folding machine (hand
	or powered), rolling machine (hand or powered), hammers/panel beating
	equipment, presses
	PC21. check the cut and formed components, to ensure completeness of work,
	accuracy in dimensional parameters a freedom from damage or wrong tool
	cuts
	Dimensional parameters: linear dimensions; flatness; squareness; angles;
	profiles; hole position; hole size/fit; depths; thread size and fit; surface finish
Carry out sheet metal	To be competent, the user/individual on the job must be able to:
assembly operations	PC22. use the appropriate methods and techniques to assemble and secure the
	components in their correct positions
	Assembly methods: self-secured joints, thermal methods(soldering, brazing
	and tack welding), mechanical fastening devices(rivets, nut, bolts, studs,
	circlips, etc)
	PC23. use of sheet metalwork assembly and joining techniques to produce
	fabrications to the required shape/geometry within ± 3.0 mm
	PC24. produce fabrications that have secure and firm joints and are free from
	excessive tooling marks, deformation, cracking, sharp edges, slivers or burrs
	PC25. follow the specified sheet metal cutting, forming and assembly sequence and
	procedure
	PC26. monitor the sheet metal cutting, forming and assembly operation and identify
	any problems that occur
	PC27. plan and carry out work logically to achieve production targets







PC28. deal appropriately with the finished products and complete any necessary documentation PC29. produce products with various features as per standards applicable totheprocess Features: flat; square; parallel and angular faces; radii and curved profiles; drilled holes; internal and external threads; sliding or mating parts; counterbore, countersink, or spot face PC30. 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 PC31. leave the work area in a safe and tidy condition on completion of the fittingactivities Handle of unresolved To be competent, the user/individual on the job must be able to: PC32. refer unresolved job related problems to appropriate personnel for support problems PC33. monitor the problem and keep the supervisor informed about progress or any delays in resolving the problem Knowledge and Understanding (K) The user/individual on the job needs to know and understand: A. Organizational KA1. relevant legislation, standards, policies, and procedures followed in the Context company relevant to own employment and performance conditions (Knowledge of the KA2. relevant health and safety requirements applicable in the work place company / KA3. own job role and responsibilities and cources for information pertaining to organization and employment terms, entitlements, job role and responsibilities its processes) KA4. reporting structure, inter-dependent functions, lines and procedures in the work area KA5. how to engage with specialists for support in order to resolve incidents and service requests KA6. importance of working in clean and safe environment practices and procedures KA7. relevant people and their responsibilities within the work area KA8. escalation matrix and procedures for reporting work and employment related issues KA9. documentation and related procedures applicable in the context of employment and work **B. Technical** The user/individual on the job needs to know and understand: Knowledge specific safe working practices, sheet metal cutting, forming and assembly KB1. procedures and environmental regulations that must be observed KB2. hazards associated with carrying out the sheet metal cutting, forming and

assembly operations and how can they be minimized

actions to be taken in case of emergencies

CSC/N0301 Perform sheet metal cutting, forming and assembly operations

KB3.







KB4.	how to make sure that the necessary job instructions, operating procedures
	and sheet metal cutting, forming and assembly specifications are available
KB5.	tools and equipment used for the sheet metal cutting, forming and assembly
	operations undertaken, and how to check that they are in a safe and usable
	condition
	Sheet metal cutting operations: hand sawing, band sawing, filing, drilling,
	chiselling, threading, scraping, manually operated lapping
	Sheet metal forming operations: planishing, raising, hollowing, flangings,
	'split and weld' method
KB6.	how to select and establish a suitable datum while marking out
KB7.	importance of ensuring that marking out is undertaken from the selected
	datum and the possible effects of working from a different datum
KB8.	methods of marking out cutting guidelines for square and rectangular
	profiles, circular and radial profiles, angles and hole positions
KB9.	ways of laying out the marking-out shapes or patterns to optimize use of
	materials
KB10.	how to cut and form sheet metal using hand tools and manually operated
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	machines
· · , · ·	Cutting hand tools: tin snips, hacksaw, hand power tools (such as drill,
The	nibbling, saw), trepanning, bench shears, files, pneumatic tools, thermal
	device, other specific tool
6	Forming hand tools: hammers, mallet stakes, formers, wooden blocks, sand
And the	bags, etc.
	Manually operated cutting machine tools: guillotine, pillar drill,
5	punch/cropping machine, nibbling machine, mechanical saw, rotary shears,
	fly press
	Manually operated forming machine tools: bending/folding machine (hand
	or powered), rolling machine (hand or powered), hammers/panel beating
	equipment, presses
KB11.	various forming operations that can be carried out
and the second second	various methods of securing the assembled components
	Assembly methods: self-secured joints, thermal methods(soldering, brazing
	and tack welding), mechanical fastening devices(rivets, nut, bolts, studs,
	circlips, etc.)
KB13.	importance of using tools or equipment only for the purpose intended
	care that is required when using the tools or equipment
	problems that can occur in the sheet metal cutting, forming and assembly
	operation, how to identify them and whom to report them
KB16	importance of reporting problems in a timely manner
	how to check the quality of the shaped components against the required
ND1/.	now to encounter quality of the shaped components against the required







CSC/N0301 Perfor	rm sheet metal cutting, forming and assembly operations		
	quality standards		
	Components standards: all dimensions are within +/- 3.0mm; finished		
	products are correctly formed and meet the required shape/geometry		
	(square, straight, angles free from twists); completed products are free from		
	excessive tool or bending marks, stretching or distortion, cracking, sharp		
	edges, slivers or burrs		
	KB18. various sheet metal materials		
	Sheet metal materials: hot rolled mild steel; cold rolled mild steel; coated		
	mild steel (eg. primed, tinned, galvanized); stainless steel; aluminum		
	KB19. how to identify materials by their physical properties		
	Properties: color, appearance, density		
	KB20. physical and mechanical properties of materials		
	Physical properties: melting points of metals, density, color, magnetism,		
	corrosion resistance, conductivity, insulation		
	Mechanical properties: tensile strength, toughness, hardness, elasticity,		
	ductility, malleability		
	KB21. importance of tools and equipment being kept in a safe and usable condition		
	KB22. importance of shutting down the machine and keeping it in secure mode		
	KB23. personal protective equipment (PPE) and clothing that must be worn during		
	the sheet metal cutting activity and from where can it be obtained		
kills (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		
	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 basic numerical operations, and calculations/ formulae		
	Numerical computations: addition, subtraction, multiplication, division,		
	fractions and decimals, percentages and proportions, simple ratios and		
	averages		
	SA4. identify various basic, compound and solid shapes as per dimensions given		
	Basic shapes: square, rectangle, triangle, circle		
	Compound shapes: involving squares, rectangles, triangles, circles, semicircles,		
	quadrants of a circle Solid shapes: cube, rectangular prism, cylinder		







CSC/N0301 Perform	n sheet metal cutting, forming and assembly operations
	Surface areas: cube, rectangular prism, cylinder (curved surface area only)
	Volumes: cube, rectangular prism, cylinder
	SA5. use appropriate measuring techniques and units of measurement
	SA6. use appropriate units and number systems to express degree of accuracy
	Degree of accuracy: decimals places, significant figures, fractions as a decimal
	quantity
	SA7. use metric systems of measurement
	SA8. calculate the value of angles in a triangle
	Angles in a triangle: right-angled, isosceles, equilateral
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA9. convey and share technical information clearly using appropriate language
	SA10. check and clarify task-related information
	SA11. liaise with appropriate authorities using correct protocol
	SA12. 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
	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
	A	Analytical Thinking
	г	he 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
	C	Critical Thinking
	Т	he 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
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NOS Version Control

NOS Code	CSC/N0301		
Credits	TBD	Version number	1.0
Industry	Capital Goods	Drafted on	24/03/2014
Industry Sub-sector	 Machine Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery 	Last reviewed on	24/11/2017
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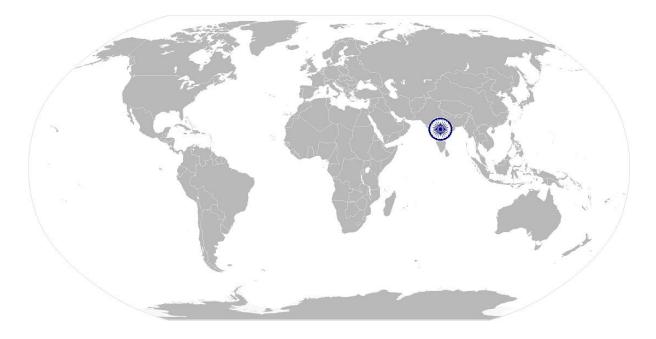






CSC/N1335 Use basic health and safety practices at the workplace

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: Health and safety Fire safety Emergencies, rescue and first-aid procedure
	ia(PC) w.r.t. the Scope
Element Health and safety	Performance CriteriaTo be competent, the user/individual on the job must be able to:PC1.use protective clothing/equipment for specific tasks and work conditionsProtective clothing: leather or asbeatos gloves, flame proof aprons, flameproof overalls buttoned to neck, cuffless (without folds), trousers, reinforcedfootwear, helmets/hard hats, cap and shoulder covers, ear defenders/plugs,safety boots, knee pads, particle masks, glasses/goggles/visorsEquipment: hand shields, machine guards, residual current devices, shields,dust sheets, respiratorPC2.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, loos and naked cables and wires, electrical machines and appliances, etc.) Possible causes of risk and accident: physical actions; reading; listening to an giving instructions; inattention; sickness and incapacity (such as





Use basic 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
	Methods of accident prevention: training in health and safety procedures;
10-	using health and safety procedures; use of equipment and working practices
-	(such as safe carrying procedures); safety notices, advice; instruction from
1	colleagues and supervisors
The state of the	

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 cracks 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

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:
	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
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 from electrocution
procedures	PC19. administer appropriate first aid to (19) ms where required eg. in case of
	bleeding, burns, choking, electric shock, 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 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
	emergency







CS	C/N1335 Use	basic health and safety practices at the workplace
Kr	nowledge and Unders	standing (K)
Α.	Organizational Context (Knowledge of the company / organization and its processes)	<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> </ul>
В.	Technical Knowledge	<ul> <li>The user/individual on the job needs to know and understand:</li> <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</li> <li>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 while 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>KB12. precautionary activities to prevent the fire accident</li> <li>KB13. 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> <li>KB14. techniques of using the different fire extinguishers</li> </ul>







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 ₂ , 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)	
	Peoding Skills
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 content 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
	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



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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
NA







# 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>Plastics Manufacturing</li> <li>Machinery</li> <li>Textile Manufacturing Machinery</li> <li>Process Plant Machinery</li> <li>Electrical and Power Machinery</li> </ol>	Last reviewed on	24/11/2017
Occupation	Fabrication, Fitting and Assembly	Next review date	24/11/2021
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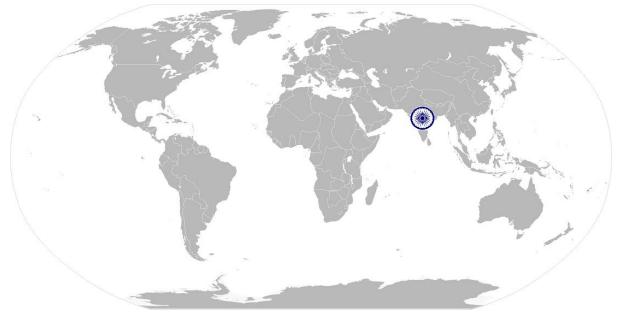






Work effectively with others

# 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.         This unit/task covers the following:         •       Work effectively with others	
Description		
Scope		
Performance Criteria(PC) 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 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</li> </ul>	
	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 Unders	tanding (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 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 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
Skills (S)	
A. Core Skills/	Reading Skills
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
	<ul><li>keep records, prepare to-do lists, take down instructions</li><li>SA4. write basic numbers, quantities and work related terminology for operationa</li></ul>



NOS
National Occupational Standards



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**

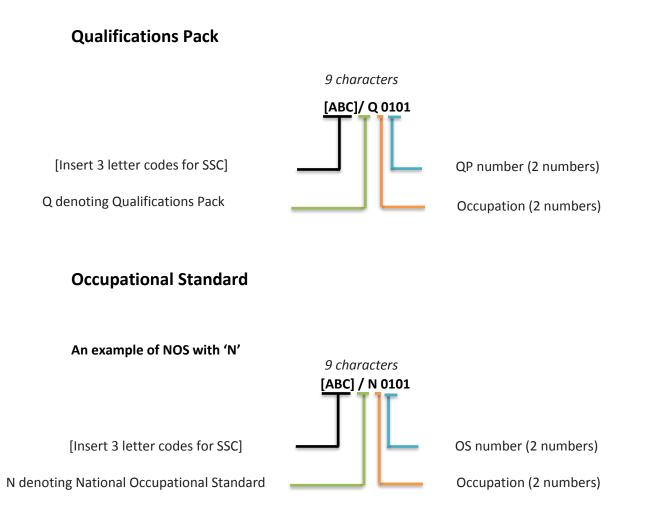
NOS Code		CSC/N1336			
Credits	TBD	Version number	1.0		
Industry	Capital Goods	Drafted on	24/03/2014		
Industry Sub-sector	<ol> <li>Machine Tools</li> <li>Plastics Manufacturing</li> <li>Machinery</li> <li>Textile Manufacturing Machinery</li> <li>Process Plant Machinery</li> <li>Electrical and Power Machinery</li> </ol>	Last reviewed on	24/11/2017		
Occupation	Fabrication, Fitting and Assembly	Next review date	24/11/2021		
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# <u>Annexure</u>

# Nomenclature for QP and NOS







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: Sheet Metal Worker - Hand Tools and Manually Operated Machines

### Qualification Pack: CSC/Q0301

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/N0301 Perform sheet metal cutting, forming and assembly	PC1.comply with health and safety, environmental and other relevant regulations and guidelines at work and ensure process compliance		3	1	2
operations	ns PC2.adhere to procedures or systems in place for risk assessment, occupational standards, personal protective equipment (PPE) and other relevant occupational safety 100 regulations 100	4	1	3	
	PC3.work following laid down procedures and instructions		2	0	2
	PC4.ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition and are kept at secured location		3	0	3





PC5.ensure that all measuring equipment are within calibration date and are approved for usage	
PC6.ensure work area is clean and safe from hazards before and after the job is completed PC7.establish job requirements from the supervisor or person in charge	
PC8.prepare and maintain the work area as per procedure or operation specification	
PC9.obtain production and consumables materials required for performing sheet metal cutting, forming and assembly operations as per specifications	
PC10.obtain tools and equipment required for performing sheet metal cutting, forming and assembly operations as per specifications	
PC11.ensure that the components used are free from foreign objects, dirt or other contamination	
PC12.prepare the sheet metal for marking out by cleaning it, removing burrs and sharp edges and applying marking out medium	
PC13.mark out a range of sheet metal materials as per instructions received using specified marking out methods and techniques	
PC14.use appropriate marking out tools and equipment as per instructions received	
PC15.mark out specified features on the workpieces as per instructions received	
PC16.obtain approval from supervisor or person in charge on marked out features and correct errors as per feedback received	
PC17.carry out cutting operations to cut and shape the sheet metal materials asper instructions received	
PC18.cut and finish material to the marked- out shape, using a range of hand tools bench shears, files, pneumatic tools, thermal device, other specific tool	
PC19.cut and finish material to the marked- out shape, using a range of manually operated machine tools	
PC20.carry out forming operations, to produce sheet metal components that have various shapes as specified using forming hand tools and manually operated tools	

3	0	3
3	0	3
3	1	2
2	0	2
3	0	3
3	1	2
2	0	2
3	1	2
3	1	2
2	0	2
4	1	3
2	0	2
4	1	3
4	1	3
4	1	3
4	1	3





PC21.check the cut and formed components, to ensure completeness of work, accuracy in dimensional parameters and freedom from damage or wrong tool cuts		4	1	3
PC22.use the appropriate methods and techniques to assemble and secure the components in their correct positions		4	1	3
PC23.use of sheet metalwork assembly and joining techniques to produce fabrications to the required shape/geometry within ± 3.0 mm		4	1	3
PC24.produce fabrications that have secure and firm joints and are free from excessive tooling marks, deformation, cracking, sharp edges, slivers or burrs		3	0	3
PC25.follow the specified sheet metal cutting, forming and assembly sequence and procedure		4	1	3
PC26.monitor the sheet metal cutting, forming and assembly operation and identify any problems that occur		2	1	1
PC27.plan and carry out work logically to achieve production targets		1	0	1
PC28.deal appropriately with the finished products and complete any necessary documentation		3	1	2
PC29.produce products with various features as per standards applicable totheprocess		4	1	3
PC30.deal promptly and effectively with problems within their control, and seek help and guidance from the relevant people if they have problems that they cannot resolve		2	0	2
PC31.leave the work area in a safe and tidy condition on completion of the fitting activities		2	0	2
PC32.refer unresolved job related problems to appropriate personnel for support		3	1	2
PC33.monitor the problem and keep the supervisor informed about progress or any delays in resolving the problem		3	1	2
	Total	100	20	80
PC1.use protective clothing/equipment for specific tasks and work conditions		4	1	3
PC2.state the name and location of people responsible for health and safety in the workplace	100	3	1	2
PC3.state the names and location of documents that refer to health and safety in the workplace		3	1	2
	to ensure completeness of work, accuracy in dimensional parameters and freedom from damage or wrong tool cuts PC22.use the appropriate methods and techniques to assemble and secure the components in their correct positions PC23.use of sheet metalwork assembly and joining techniques to produce fabrications to the required shape/geometry within ± 3.0 mm PC24.produce fabrications that have secure and firm joints and are free from excessive tooling marks, deformation, cracking, sharp edges, slivers or burrs PC25.follow the specified sheet metal cutting, forming and assembly sequence and procedure PC26.monitor the sheet metal cutting, forming and assembly operation and identify any problems that occur PC27.plan and carry out work logically to achieve production targets PC28.deal appropriately with the finished products and complete any necessary documentation PC29.produce products with various features as per standards applicable totheprocess PC30.deal promptly and effectively with 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PC4.identify job-site hazardous work and state possible causes of risk or accident in the workplace52PC5.carry out safe working practices while dealing with hazards to ensure the safety of self and others42PC6.state methods of accident prevention in the work environment of the job role32PC7.state location of general health and safety equipment in the workplace52PC8.inspect for faults, set up and safely use steps and ladders in general use52PC9.work safely in and around trenches, elevated places and confined areas52PC10.lift heavy objects safely using correct procedures42PC11.apply good housekeeping practices at all times52PC12.identify common hazard signs displayed in various areas31	3 2 1 3
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	3
	2
PC13.retrieve and/or point out documents that refer to health and safety in the workplace41	3
PC14.use the various appropriate fire extinguishers on different types of fires31correctly31	2
PC15.demonstrate rescue techniques applied during fire hazard 3 1	2
PC16.demonstrate good housekeeping in order to prevent fire hazards41	3
PC17.demonstrate the correct use of a fire 4 1	3
PC18.demonstrate how to free a person from electrocution41	3
PC19.administer appropriate first aid to victims where required eg. in case of bleeding, burns, choking, electric shock, poisoning etc.	2
PC20.demonstrate basic techniques of 3 1	2
PC21.respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments31	2
PC22.perform and organize loss minimization or rescue activity during an accident in real or simulated environments31	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		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	100	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