





# 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
- 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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	C	ontents
	1.	Introduction and Contacts1
	2.	Qualifications Pack2
THE STATE OF THE S	3.	Glossary of Key Terms4
2002	4.	OS Units6
	5.	Annexure: Nomenclature for QP & OS30
	6.	Assessment Criteria32

#### Introduction

#### **Qualifications Pack- Fitter- Mechanical Assembly**

**SECTOR/S: CAPITAL GOODS** 

#### SUB-SECTOR:

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

**REFERENCE ID: CSC/Q0304** 

**ALIGNED TO:** NCO-2004/8281.10

5. Process Plant Machinery

6. Electrical and Power Machinery

7. Light Engineering Goods

**Brief Job Description:** It involves marking out the material for the features to be produced, and then use hand tools, portable power tools, manually operated machine tools and shaping, fitting and assembly techniques appropriate to the operations being performed. The candidate will be expected to check the quality of the workpiece, using measuring equipment.

**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 one's work to improve efficiency and effectiveness.









Qualifications Pack Code	CSC/Q0304		
Job Role	Fitter- Mechanical Assembly [Applicable for National Scenarios]		
Credits	TBD	Version number	1.0
Sector	Capital Goods	Drafted on	10/04/2014
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	Fitting and Assembly	Next review date	24/11/2021
NSQC Clearance on	22/04/2015		







Job Role	Fitter - Mechanical Assembly	
Role Description	Perform basic machining, fitting and assembly activities of machinery to produce machinery of features as per given specifications.	
NSQF level	3	
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	Minimum 1 year as a Fitter Fabricator or Machinist	
Applicable National Occupational Standards (NOS)	Compulsory:  CSC/N0304 Perform fitting and assembly operations on metal components  CSC/N1335 Use basic health and safety practices at the workplace  CSC/N1336 Work effectively with others	
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







# Acronyms

	specific designated responsibilities.
Core Skills/Generic Skills	Core skills or generic skills are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. In the context of the OS, these include communication related skills that are applicable to most job roles.
Keywords /Terms	Description
GD&T	Geometric Dimensioning And Tolerancing
DTI	Dial Test Indicators
СММ	Coordinate Masuring Machine
ECM	Electrochemical Machining
BODMAS	Brackets/ Of/ Division/ Multiplication/ Addition/ Subtraction
CO <sub>2</sub>	Carbon Dioxide
CPR	Cardiac Pulmonary Resuscitation
PPE	Personal Protective Equipment



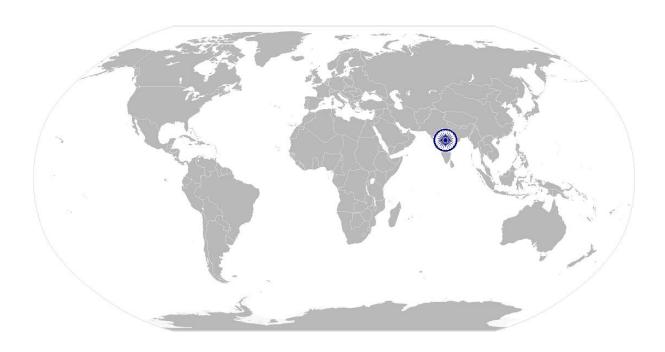






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# National Occupational Standard



# **Overview**

This unit covers the basic fitting and assembly activities of machinery to produce machinery of features as per given specifications.









Unit Code	CSC/N0304
Unit Title (Task)	Perform fitting and assembly operations on metal components
Description	This unit covers the basic fitting and assembly activities to produce machinery of features as per given specifications. The candidate will be able to carry out fitting and assembly activities with understanding of the required equipment, manufacturing techniques and the operating and safety procedures.
Scope	This unit/task covers the following:  Work safely Prepare for general machining, fitting or assembling operations Mark out the components Perform general fitting operations Perform assembling operations Measure and checking component

#### 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 PC2. adhere to procedures and guidelines for personal protective equipment (PPE) and other relevant safety regulations while performing fitting operations PC3. ensure work area is clean and safe from hazards Hazards: use of power tools, trailing leads or hoses, damaged or badly maintained tools and equipment; using files with damaged or poor fitting handles; using machine tools; handling of oils and grease; misuses of tools; not following laid-down maintenance procedures
	PC4. ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition  PC5. ensure that all machines and machine tools are secured at all times
Prepare for general machining, fitting or assembling operations	To be competent, the user/individual on the job must be able to:  PC6. determine job requirement from job specification documents obtained from valid sources  Job requirements: raw materials or components required (type, quality, quantity); dimensions; limits and tolerances; surface texture requirements; operations required (list, sequence and procedures where applicable); shape or profiles to be fabricated; cutting, bending and rolling allowances for









CSC/N0304 Per	rform fitting and assembly operations on metal components
	fabricated forms; instruments and tools to be used; interdependencies;
	timelines
	Job specification documents: detailed component drawings; approved
	sketches/illustrations; national, international and organisational standards;
	reference tables and charts; fabrication/casting drawings
	Valid source: job instruction sheet/job card; work drawings and instructions;
	planning documentation; quality control documents; operation sheets;
	process specifications; instructions from supervisor
	PC7. establish the procedures to complete the general machining, fitting or
	assembling operations
	PC8. obtain the appropriate equipment, parts and accessories for the general
	machining, fitting or assembling operation
	Equipment: rollers and skates; crowbars; pull-lifts; lubricated plates
	Parts: assembly structure (framework, support, casings, panels); pre-
	machined components; shafts; levers/linkages; springs; fabricated
	components; chains; keys; belts; bearing; couplings; pulleys; gaskets; seals;
	sprockets; gears; pipework/hoses; bushes; cams and followers; other specific
	components
	Accessories for assembling: hooks, legs, eyebolts, shackles, chains, rings,
	special-to-purpose equipment, rules for the use of slings, trolleys
	PC9. check that all measuring equipment is within calibration date
	Measuring equipments: external micrometers, vernier/digital/dial caliper,
	surface finish equipment (eg. comparison plates, machines), rules, squares,
	protractors, depth micrometers, depth verniers, feeler gauges, bore/hole
	gauges, slip gauges, radius/profile gauges, thread gauges, height gauge,
	hardness tester, dial test indicators (DTI), surface roughness tester,
	coordinate measuring machine (CMM), profile projectors, form testers
Mark out the	To be competent, the user/individual on the job must be able to:
components	PC10. prepare/determine suitable datums from which to mark out (eg. choosing a
	machine face or filing a flat face as a datum)
	PC11. apply a marking medium to enhance clarity of the marking out
	PC12. use an appropriate method of marking out (eg. direct marking using
	instruments, use of templates or tracing/transfer methods)
	PC13. use a range of marking out equipment (eg. rules, squares, scribers, vernier
	instruments)
	Marking tools: rules/tapes, dividers/trammels, scribers, punches, scribing
	blocks, squares, protractor, permanent markers
	PC14. mark out a range of features
	Features: datum lines; cutting guidelines; square and rectangular profiles;
	circular and radial profiles; angles; holes linearly positioned, boxed and on







CSC/N0304 Perf	orm fitting and assembly operations on metal components
	pitch circles
Perform general	To be competent, the user/individual on the job must be able to:
fitting operations	PC15. cut and shape the materials to the required specification, using appropriate
	tools and techniques
	PC16. use a range of hand fitting methods for fitting operations
	Hand fitting: cutting out the rough profile using saws (eg. hacksaw, band
	saw), cutting a screw thread (eg. tapping or dieing), filing (flat, square,
	curved), drilling holes, reaming of holes, scrabbing of parts
	PC17. use a range of manually operated machines for performing machining
	operations
	Manually operated machine tools: manual grinding machines (Ag4, wolf
	grinding machine, etc.), drills (power drills, pedestal drills), punching
	machines, threading machines
Perform assembling	To be competent, the user/individual on the job must be able to:
operations	PC18. use appropriate methods and techniques to assemble and secure the
	components and sub-assemblies in their correct positions
	Methods: assembling components having interference fits (eg. by pressure,
	expansion or contraction); securing components using threaded fasteners (eg.
	nuts, bolts, machine screws, cap scens); securing components using spring
	clips (eg. external circlips, internal circlips, special clips); using locking and
	retaining devices (eg. tab washers, locking nuts, wire locks, special purpose
	types); securing components using rivets (eg. countersunk, roundhead, blind,
	special purpose types); applying sealing compounds or adhesives; electrical
	bonding of components; setting and adjusting components to give correct
	working parameters (eg. shimming and packing); torque setting of nuts and
	bolts
	PC19. drill, tap and ream locating holes as required to permanently locate
	components
	PC20. fasten components permanently using methods such as using engineered
	fasteners, applying adhesives, soldering and brazing
	PC21. produce mechanical assemblies as per job specifications
	PC22. dismantle mechanical assemblies without damage to components and/or
	subassemblies
	Methods to dismantle: procedure for isolation and locking off a
	device/system; sequence of operations used to dismantle a device/system;
	proof marking, correct storage procedures for removed parts; release of
	pressure/force; extraction
	PC23. 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









CSC/N0304 Perf	form fitting and assembly operations on metal components
	PC24. keep the work area in a safe and tidy condition during and on completion of
	the manufacturing activities
	PC25. return all tools and equipment to the correct location on completion of the
	fitting activities support the customer remotely over the internet to test
	potential solutions
	Fitting activities: file flat, square and curved surfaces and achieve a smooth
	surface finish; select saw blades for different materials, and how to set the
	saw blades for different operations; produce screw threads on workpieces
	using hand dies; tighten torque with torque wrenches; determine the drill size
	for tapped holes, and the importance of using the taps in the correct
	sequence
Measure and	To be competent, the user/individual on the job must be able to:
checking component	PC26. perform the necessary checks for dimensional accuracy
	Dimensions: linear dimensions (eg. lengths, depths), diameters (eg.
	external, internal), flatness, squareness, angles, profiles, hole size and
	position, thread size and fit
	PC27. use the appropriate measuring equipment for checking activities
	PC28. produce components within all of the applying standards
	Components quality standards: components to be free from false tool cuts,
	burrs and sharp edges; dimensional tolerance +/-0.020mm; flatness and
	squareness 0.05mm; angles within +/- 1 degree; screw threads to fit as per
	standard; reamed and bored holes within interference: - 0.025mm (hole) +
	0.025mm (shaft), transition: - 0.1mm (hole) + 0.1 (shaft, clearance:
	50microns; radius: 0.5 r; surface finish 63μin or 1.6 μm
	PC29. generate stage inspection reports
<i>"</i> 1.1 10.1	
Knowledge and Unders	
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 reporting work and employment related
	issues
	KA8. documentation and related procedures applicable in the context of









CSC/N0304 Perfe	orm fitt	ing and assembly operations on metal components
		employment and work
	KA9.	importance and purpose of documentation in context of employment and work
B. Technical	The use	er/individual on the job needs to know and understand:
Knowledge	KB1.	how to extract and use information from engineering drawings and related
		specifications in relation to work undertaken
	KB2.	how to interpret first and third angle drawings, imperial and metric systems
		of measurement, workpiece reference points and system of tolerancing
		(Geometric Dimensioning and Tolerancing GD&T)
	KB3.	preparation of materials in readiness for the marking out activities, in order to
		enhance clarity, accuracy and safety
	KB4.	selection and establishment of a suitable datum
	KB5.	importance of ensuring that marking out is undertaken from the selected
	- 10 in	datum
	KB6.	possible effects of working from an incorrect datum
	KB7.	mark-out conventions when marking out the workpiece
	KB8.	various fitting activities to be carried out
	-V2	Fitting activities: file flat, square and curved surfaces and achieve a smooth
	1	surface finish; select saw blades for ferent materials, and how to set the
	7	saw blades for different operations; produce screw threads on workpieces
	875	using hand dies; tighten torque with torque wrenches; determine the drill size
		for tapped holes, and the importance of using the taps in the correct sequence
	КВ9.	methods of holding the workpiece for the hand fitting, drilling threading and
		taping activities
	KB10.	how to mount workpiece
	KB11.	assembly methods, techniques and procedures to be used
		Methods: assembling components having interference fits (eg. by pressure,
		expansion or contraction); securing components using threaded fasteners (eg.
		nuts, bolts, machine screws, cap screws); securing components using spring
		clips (eg. external circlips, internal circlips, special clips); using locking and
		retaining devices (eg. tab washers, locking nuts, wire locks, special purpose
		types); securing components using rivets (eg. countersunk, roundhead, blind,
		special purpose types); applying sealing compounds or adhesives; electrical
		bonding of components; setting and adjusting components to give correct
		working parameters (eg. shimming and packing); torque setting of nuts and
	VD13	bolts
	KR17.	how the components are to be aligned, adjusted and positioned prior to
		securing them, and the tools and equipment
		Alignment: slideways: flat, vee, dovetail, cylindrical, comparison of their









capabilities, main features, accuracy of movement, means of adjustment, lubrication, protection; stick-slip: definition, recirculating ball leadscrews, hydrostatic slides; typical checks:coaxial alignment between main spindle axis, coaxial alignment between two spindles, alignment of spindle to guideway, squareness of slideways movement, concentricity and end float of spindle, squareness of planes to spindle, setting of guards, stops and automatic safety cut-outs; bearings: plain bush (radial, radial and axial) ball (radial, axial, radial and axial) roller (radial, axial, radial and axial); methods of alignment: standard tests, straight edge, precision level, autocollimator and reflector, roundness measuring machine

- KB13. various mechanical fastening devices that are used

  Mechanical fastenings and joining techniques: non-permanent nuts, bolts,
  studs, screws, pins, springs, keys, bearings, permanent welded, soldered,
  brazed, riveted
- KB14. how to mount and secure the cutting tools in the tool holding devices

  Workholding devices: bench / machine vice; clamps (eg. toolmaker's); threejaw chuck; four-jaw chuck; collet chuck; drive plate and centres; magnetic
  chucks(holding devices); special purpose tool holders ( 3R for holding
  electrodes)
- KB15. techniques of taking trial cuts and checking dimensional accuracy
- KB16. the application of roughing and finishing cuts, and the effect on tool life, surface finish and dimensional accuracy
- KB17. application of cutting fluids and compounds with regard to a range of different materials, and why some materials do not require cutting fluids to be used
  - Range of Materials: Ferrous metals: eg. carbon steels, stainless steels, cast iron, tool steel, hard metals; Non-ferrous metals: eg. bronze, aluminium, copper and copper alloys
- KB18. effects of coolant concentration and machining temperature on the job being
- KB19. how to check the workpiece and the measuring equipment that is used Measuring equipments: external micrometers, vernier/digital/dial caliper, surface finish equipment (eg. comparison plates, machines), rules, squares, protractors, depth micrometers, depth verniers, feeler gauges, bore/hole gauges, slip gauges, radius/profile gauges, thread gauges, height gauge, hardness tester, dial test indicators (DTI), surface roughness tester, coordinate measuring machine (CMM), profile projectors, form testers
- KB20. need to check that the measuring equipment is within current calibration dates, and that the instruments are correctly zeroed
- KB21. measuring internal and external dimensions









CSC/N0304 Perf	form fitting and assembly operations on metal components
	KB22. measuring geometric features
	KB23. the importance of leaving the work area and equipment in a safe and clean
	condition on completion of fitting activities
Skills (S)	
A. Core Skills/	Reading Skills
GenericSkills	
	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
	Writing Skins
	The user/individual on the job needs to know and understand how to:
	SA2. fill up appropriate technical forms, process charts, activity logs as per
	organizational format in English and/or local language
	SA3 undertake numerical operations, and calculations/ formulae
	Numerical computations: addition, subtraction, multiplication, division,
	fractions and decimals, percentages and proportions, simple ratios and
	averages
	SA4. identify and draw various basic, color und and solid shapes as per
	dimensions given
	Basic shapes: square, rectangle, triangle, circle
	Compound shapes: involving squares, rectangles, triangles, circles, semi-
	circles, quadrants of a circle
	Solid shapes: 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
	Units and number systems representing degree of accuracy: decimals places,
	significant figures, fractions as a decimal quantity
	SA7. interpret and express tolerance in terms of limits on dimensions
	SA8. calculation of the value of angles in a triangle
	SA9. 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:
	SA10. convey and share technical information clearly using appropriate language
	SA11. check and clarify task-related information
	SA12. liaise with appropriate authorities using correct protocol
	SA13. communicate with people in respectful form and manner in line with
	organizational protocol
B. Professional Skills	Decision Making
1	









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

#### CustomerCentricity

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:

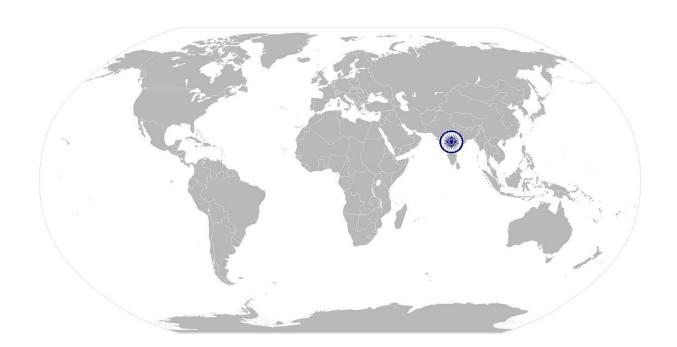








SB23. participate in on-the-job and other learning, training and development
interventions and assessments
SB24. clarify task related information with appropriate personnel or technical
adviser
SB25. seek to improve and modify own work practices
SB26. maintain current knowledge of application standards,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











# Perform fitting and assembly operations on metal components

# **NOS Version Control**

NOS Code		CSC/N0304		
Credits	TBD	TBD Version number 1.0		
Industry	Capital Goods	Drafted on	10/04/2014	
Industry Sub-sector	<ol> <li>Machine Tools</li> <li>Dies, Moulds and Press Tools</li> <li>Plastics         <ul> <li>Manufacturing</li> <li>Machinery</li> </ul> </li> <li>Textile             <ul> <li>Manufacturing</li> <li>Machinery</li> </ul> </li> <li>Process Plant                     <ul> <li>Machinery</li> </ul> </li> <li>Electrical and Power                     <ul> <li>Machinery</li> <li>Electrical and Power</li> <li>Machinery</li> <li>Light Engineering</li> <li>Goods</li> </ul> </li> </ol>	Last reviewed on	24/11/2017	
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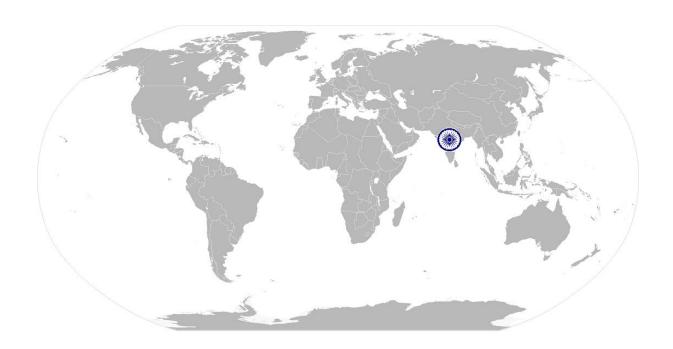






Use basic health and safety practices at the workplace

# 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     Fmorganises, rescue and first aid procedure		
	Emergencies, rescue and first-aid procedure		
Performance Criteria(I	PC) w.r.t. the Scope		
Element	Performance Criteria		
Health and safety	To be competent, the user/individual on the job must be able to: PC1. use protective clothing/equipment for specific tasks and work conditions Protective clothing: leather or asbestes gloves, flame proof aprons, flame proof overalls buttoned to neck, cuffless (without folds), trousers, reinforced footwear, helmets/hard hats, cap and shoulder covers, ear defenders/plugs, safety boots, knee pads, particle masks, glasses/goggles/visors Equipment: hand shields, machine guards, residual current devices, shields, dust sheets, respirator PC2. state the name and location of people responsible for health and safety in the workplace PC3. state the names and location of documents that refer to health and safety in the workplace PC4. identify job-site hazardous work and state possible causes of risk or accident in the workplace Hazards: sharp edged and heavy tools; heated metals; oxyfuel and gas cylinders; welding radiation; hazardous surfaces(sharp, slippery, uneven, chipped, broken, etc.); hazardous substances(chemicals, gas, oxy-fuel, fumes, dust, etc.); physical hazards(working at heights, large and heavy objects and machines, sharp and piercing objects, tolls and machines, intense light, load noise, obstructions in corridors, by doors, blind turns, noise, over stacked shelves and packages, etc.) electrical hazards (power supply and points, loose and naked cables and wires, electrical machines and appliances, etc.) Possible causes of risk and accident: physical actions; reading; listening to and giving instructions; inattention; sickness and incapacity (such as		





harness, fall arrestors, etc.





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

PC5.

drunkenness); health hazards (such as untreated injuries and contagious illness)

carry out safe working practices while dealing with hazards to ensure the

- safety of self and others

  Safe working practices: using protective clothing and equipment; putting up and reading safety signs; handle tools in the correct manner and store and maintain them properly; keep work area clear of clutter, spillage and unsafe object lying casually; while working with electricity take all electrical precautions like insulated clothing, adequate equipment insulation, use of control equipment, dry work area, switch off the power supply when not required, etc.; safe lifting and carrying practices; use equipment that is working properly and is well maintained; take due measures for safety while working in confined places, trenches or at heights, etc. including safety
- PC6. state methods of accident prevention in the work environment of the job role Methods of accident prevention: training in health and safety procedures; using health and safety procedures; use of equipment and working practices (such as safe carrying procedures); safety notices, advice; instruction from colleagues and supervisors
- 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









CSC/N1335 Use	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:
	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 n electrocution
procedures	PC19. administer appropriate first aid to victims 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





Use basic health and safety practices at the workplace





	emergency		
Knowledge and Understanding (K)			
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand:  KA1. names (and job titles if applicable), and where to find, all the people responsible for health and safety in a workplace  KA2. names and location of documents that refer to health and safety in the workplace		
B. Technical Knowledge	The user/individual on the job needs to know and understand:  KB1. meaning of "hazards" and "risks"  KB2. health and safety hazards commonly present in the work environment and related precautions  KB3. possible causes of risk, hazard or accident in the workplace and why risk and/or accidents are possible  KB4. possible causes of risk and accident  Possible causes of risk and accident: physical actions; reading; listening to and giving instructions; inattention; sickness and incapacity (such as drunkenness); health hazards (such as untreated injuries and contagious illness)		

	•
KB3.	possible causes of risk, hazard or accident in the workplace and why risk
37.5	and/or accidents are possible
KB4.	possible causes of risk and accident
70-1	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
7.30	illness)
KB5.	methods of accident prevention
	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
KB6.	safe working practices when working with tools and machines
KB7.	safe working practices while working at various hazardous sites
KB8.	where to find all the general health and safety equipment in the workplace
KB9.	various dangers associated with the use of electrical equipment
KB10.	preventative and remedial actions to be taken in the case of exposure to toxic
	materials
	Exposure: ingested, contact with skin, inhaled
	Preventative action: ventilation, masks, protective clothing/ equipment);
	Remedial action: immediate first aid, report to supervisor
	Toxic materials: solvents, flux, lead
KB11.	importance of using protective clothing/equipment while working
KB12.	precautionary activities to prevent the fire accident
KB13.	various causes of fire
	Causes of fires: heating of metal; spontaneous ignition; sparking; electrical
	heating; loose fires (smoking, welding, etc.); chemical fires; etc.









CSC/N1335 U	se 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
Skills (S)	NB24. Potential impact to a person who is moved incorrectly
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 to 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
	SA5. question coworkers appropriately in order to clarify instructions and other
B. Professional Skill	SA5. question coworkers appropriately in order to clarify instructions and other issues SA6. give clear instructions to coworkers, subordinates others
B. Professional Skill	SA5. question coworkers appropriately in order to clarify instructions and other issues SA6. give clear instructions to coworkers, subordinates others  Decision Making
B. Professional Skill	SA5. question coworkers appropriately in order to clarify instructions and other issues SA6. give clear instructions to coworkers, subordinates others  Decision Making The user/individual on the job needs to know and understand how to:
B. Professional Skill	SA5. question coworkers appropriately in order to clarify instructions and other issues  SA6. give clear instructions to coworkers, subordinates others  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
B. Professional Skill	SA5. question coworkers appropriately in order to clarify instructions and other issues  SA6. give clear instructions to coworkers, subordinates others  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
B. Professional Skill	SA5. question coworkers appropriately in order to clarify instructions and other issues  SA6. give clear instructions to coworkers, subordinates others  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
B. Professional Skill	SA5. question coworkers appropriately in order to clarify instructions and other issues SA6. give clear instructions to coworkers, subordinates others  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
B. Professional Skill	SA5. question coworkers appropriately in order to clarify instructions and other issues SA6. give clear instructions to coworkers, subordinates others  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









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

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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 or 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









# 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	10/04/2014
Industry Sub-sector	<ol> <li>Machine Tools</li> <li>Dies, Moulds and Press Tools</li> <li>Plastics         Manufacturing         Machinery</li> <li>Textile         Manufacturing         Machinery</li> <li>Process Plant         Machinery</li> <li>Electrical and Power         Machinery</li> <li>Light Engineering         Goods</li> </ol>	Last reviewed on	24/11/2017
Occupation	Fitting and Assembly	Next review date	24/11/2021



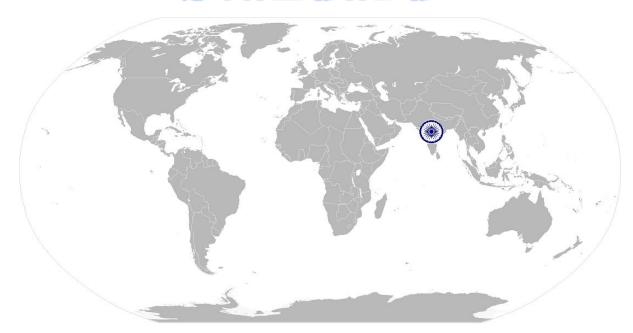






Work effectively with others

# 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.  This unit/task covers the following:
Scope	Work effectively with others
Performance Criteria(P	C) w.r.t. the Scope
Element	Performance Criteria
Work effectively with others	To be competent, the user/individual on the job must be able to: PC1 accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required PC2. accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt PC3. give information to others clearly, at a pace and in a manner that helps them to understand PC4. display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible PC5. consult with and assist others to maximize effectiveness and efficiency in carrying out tasks PC6. display appropriate communication etiquette while working Communication etiquette: do not use abusive language; use appropriate titles and terms of respect; do not eat or chew while talking (vice versa)etc. PC7. display active listening skills while interacting with others at work PC8. use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism PC9. demonstrate responsible and disciplined behaviors at the workplace Disciplined behaviors: e.g. punctuality; completing tasks as per given time and standards; not gossiping and idling time; eliminating waste, honesty, etc. PC10. escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict
Knowledge and Unders	2.1.1
A. Organizational Context (Knowledge of the company /	The user/individual on the job needs to know and understand:  KA1. legislation, standards, policies, and procedures followed in the company relevant to own employment and performance conditions  KA2. reporting structure, inter-dependent functions, lines and procedures in the









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









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









#### Work effectively with others

# **NOS Version Control**

NOS Code		CSC/N1336			
Credits	TBD	Version number	1.0		
Industry	Capital Goods	Drafted on	10/04/2014		
Industry Sub-sector	<ol> <li>Machine Tools</li> <li>Dies, Moulds and Press Tools</li> <li>Plastics         Manufacturing         Machinery</li> <li>Textile         Manufacturing         Machinery</li> <li>Process Plant         Machinery</li> <li>Electrical and Power         Machinery</li> <li>Light Engineering         Goods</li> </ol>	Last reviewed on	24/11/2017		
Occupation	Fitting and Assembly	Next review date	24/11/2021		







#### **Annexure**

#### **Nomenclature for QP and NOS**

#### **Qualifications Pack**



[Insert 3 letter codes for SSC]

Q denoting Qualifications Pack

# **Occupational Standard**

#### An example of NOS with 'N'

[Insert 3 letter codes for SSC]

N denoting National Occupational Standard



OS number (2 numbers)

QP number (2 numbers)

Occupation (2 numbers)

Occupation (2 numbers)







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 Exampl	
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: Fitter - Mechanical Assembly

**Qualification Pack: CSC/Q0304** 

**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/N0304 Perform fitting and assembly operations on metal components	PC1. comply with health and safety, environmental and other relevant regulations and guidelines at work	100	3	1	2
	PC2. adhere to procedures and guidelines for personal protective equipment (PPE) and other relevant safety regulations while performing broaching operations		4	1	3
	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		2	0	2
	PC5. ensure that all machines and machine tools are secured at all times		2	0	2
	PC6. determine job requirement from job specification documents obtained from valid sources		3	1	2







PC7. establish the procedures to complete the general machining, fitting or assembling operations	3	1	2
PC8. obtain the appropriate tools and equipment for the general machining, fitting or assembling operation	2	1	1
PC9. check that all measuring equipment is within calibration date	3	0	3
PC10. prepare/determine suitable datums from which to mark out (eg. choosing a machine face or filing a flat face as a datum, etc.)	З	1	2
PC11. apply a marking medium to enhance clarity of the marking out	2	0	2
PC12. use an appropriate method of marking out (eg. direct marking using instruments, use of templates or tracing/transfer methods, etc.)	3	1	2
PC13. use a range of marking out equipment (eg. rules, squares, scribers, vernier instruments, etc.)	5	2	3
PC14. mark out a range of features	3	1	2
PC15. cut and shape the materials to the required specification, using appropriate tools and techniques	5	2	3
PC16. use a range of hand fitting methods for fitting operations	4	1	3
PC17. use a range of manually operated machines for performing machining operations	4	1	3
PC18. use appropriate methods and techniques to assemble and secure the components and subassemblies in their correct positions	6	2	4
PC19. drill, tap and ream locating holes as required to permanently locate components	5	1	4
PC20. fasten components permanently using methods such a s using engineered fasteners, applying adhesives, soldering and brazing	5	1	4
PC21. produce mechanical assemblies as per job specifications	4	1	3
PC22. dismantle mechanical assemblies without damage to components and/or subassemblies	3	0	3
PC23. 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	3	0	3







	PC24. keep the work area in a safe and tidy condition during and on completion of the manufacturing activities		2	0	2	
	PC25. return all tools and equipment to the correct location on completion of the fitting activities;		3	0	3	
	PC26. perform the necessary checks for dimensional accuracy		4	1	3	
	PC27. use the appropriate measuring equipment for checking activities		4	1	3	
	PC28. produce components within all of the applying standards		5	1	4	
	PC29. generate stage inspection reports		3	1	2	
	a to get a total de la partir a special	Total	100	23	77	
CSC/N1335 Use basic health and	PC1.use protective clothing/equipment for specific tasks and work conditions	Total	5	2	3	
safety practices at the workplace	PC2.state the name and location of people responsible for health and safety in the workplace		3	1	2	
	PC3.state the names and location of documents that refer to health and safety in the workplace	100	3	1	2	
	PC4.identify job-site hazardous work and state possible causes of risk or accident in the workplace		5	2	3	
	PC5.carry out safe working practices while dealing with hazards to ensure the safety of self and others		4	2	2	
	PC6.state methods of accident prevention in the work environment of the job role		3	2	1	
	PC7.state location of general health and safety equipment in the workplace		5	2	3	
	PC8.inspect for faults, set up and safely use steps and ladders in general use		5	2	3	
	PC9.work safely in and around trenches, elevated places and confined areas			5	2	3
	PC10.lift heavy objects safely using correct procedures		4	2	2	
	PC11.apply good housekeeping practices at all times		5	2	3	
	PC12.identify common hazard signs displayed in various areas		3	1	2	
	PC13.retrieve and/or point out documents that refer to health and safety in the workplace		4	1	3	
	PC14.use the various appropriate fire extinguishers on different types of fires correctly		4	1	3	
	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		4	1	3
	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	2	1
	PC25.participate in emergency procedures		2	1	1
	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		3	1	2
		Total	100	37	63
CSC/N1336 Work effectively with others	PC1.accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required		10	3	7
	PC2.accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt		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
	PC6.display appropriate communication etiquette while working		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