



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR CAPITAL GOODS INDUSTRY

What are Occupational Standards(OS)?

OS describe what individuals need to do, know and understand in order to carry out a particular job role or function

OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Introduction Qualifications Pack- Operator - Conventional Milling

SECTOR/S: CAPITAL GOODS

SUB-SECTOR:

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

OCCUPATION: Machining

REFERENCE ID: CSC/Q0108

ALIGNED TO: NCO-2004/8211.30

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

Brief Job Description: Produce a range of components that combine a number of different features (eg. flat faces, parallel faces, faces that are flat and square to each other, angular faces, steps, slots and special forms) and continuously monitor the machining operations and make minor adjustments to settings if required.

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





	Qualifications Pack Code	C	SC/Q0108	
	Job Role	Operator - Conventional Milling [Applicable for National Scenarios]		
ils	Credits	TBD	Version number	1.0
Details	Sector	Capital Goods	Drafted on	10/04/2014
Job De	Sub-sector	 Machine Tools Dies, Moulds And Press Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods 	Last reviewed on	24/11/2017
	Occupation	Machining	Next review date	24/11/2021
	NSQC Clearance on	2	26/03/2015	

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Job Role	Operator - Conventional Milling
Role Description	Production of a range of components or performing machining by carrying out milling operations on a conventional milling machine.
NSQF level	2
Minimum Educational Qualifications	10 th Standard pass, preferably
Maximum Educational Qualifications	Not Applicable
Prerequisie 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/N0108 Operate conventional milling machines</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.
Occupationa (OS)	al Standards	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.
Performanc	e Criteria	Performance criteria are statements that together specify the standard of performance required when carrying out a task.
National Oc Standards (I		NOS are occupational standards which apply uniquely in the Indian context.
Qualification	ns 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 Understand		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.
Organisatio	nal 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 Kr	nowledge	Technical knowledge is the specific knowledge needed to accomplish





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	Core Skills/ Generic Skills	specific designated responsibilities. Core skills or generic skills are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. In the context of the OS, these include communication related skills that are applicable to most job roles.
	Keywords /Terms	Description
S	CO ₂	Carbon Dioxide
Acronyms	CPR	Cardiac Pulmonary Resuscitation
uo	PPE	Personal Protective Equipment
Acr	ISO	International Organization For Standardization







Operate conventional milling machines

National Occupational Standard



Overview

This unit covers producing a range of components or performing machining by carrying out milling operations on a milling machine.







Operate conventional milling machines

Unit Code	CSC/N0108
Unit Title (Task)	Operate conventional milling machines
Description	This unit covers performing milling operations on a milling machine, to produce a range of components that combine a number of different features (eg. flat faces, parallel faces, faces that are flat and square to each other, angular faces, steps, slots and special forms) on conventional horizontal milling machine and vertical milling machine.
Scope	 This unit/task covers the following: Work safely Prepare for operating conventional milling machine Carry out operations on conventional milling machine Handle unresolved problems
Performance Criteria(P	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 machining operations Personal protective equipment: eg. correctly fitting overalls; safety glasses; long hair is tied back or netted; removing any jewelry or other items that can become entangled in the machinery; covered shoes; face mask, etc PC3. work following laid down procedures and instructions PC4. ensure work area is clean and safe from hazards PC5. ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition
Prepare for operating conventional milling machine	 To be competent, the user/individual on the job must be able to: PC6. check that all measuring equipment is within calibration date PC7. ensure that the components used are free from foreign objects, dirt or other contamination PC8. ensure availability of job specification from a valid source Job specifications: instructions from supervisor/person-in charge, operational drawings; approved sketches/illustrations Valid sources: supervisor, job instruction sheet/job card; work drawings and instructions PC9. read and establish job requirements from the job specification document (to







CSC/N0108	Operate conventional milling machines work undertaken)
	Job specifications documents: instructions from supervisor/person-incharge,
	operational drawings; approved sketches/illustrations
	PC10. prepare and maintain the work area as per procedure or operation
	specification
	PC11. confirm with the machine setter that the machine is ready for production
	PC12. seek any necessary instruction/training on the operation of the various milling machines, where appropriate
	Milling machines: horizontal milling machine, vertical milling machine
	PC13. ensure that machine guards are in place and are correctly adjusted
	PC14. identify different types of cutters used in horizontal and vertical milling machines
	PC15. identify different parts of the vertical and horizontal milling machine
	PC13. Identify different parts of the vertical and forzontal mining machine PC16. hold components securely, without distortion
	PC10. Inductomponents securely, without distortion PC17. ensure that machine settings are adjusted as and when required to maintain
	the required accuracy and quality standards
	Quality standards: components to be free from false tool cuts, burrs and
	sharp edges; dimensional tolerance 0.020 to 0.030 mm; flatness and
	squareness within 0.125mm; surface inish 63µin or 1.6µm; angles within +/-
	1 degree
Carry out operations	To be competent, the user/individual on the job must be able to:
on conventional	PC18. operate the machine controls in both hand and power modes
milling machine	PC19. stop the machine in both normal and emergency situations, and use correct
	procedure for restarting after an emergency
	PC20. use British and metric systems of measurement
	PC21. perform various milling operations to produce various features on metal and
	non-metal components
	Milling operations: e.g. milling of flat services; gang and straddle milling;
	milling of sunk and recessed surfaces, face milling, side milling, angular
	milling, slotting, slitting, key way cutting, face slot cutting, woodruff cutting,
	dovetail cutting, etc.
	Features: faces (flat, square, parallel, angular); steps/shoulders, slots
	(enclosed, open ended, tee slots), recesses, holes (drilled, bored), profile
	forms (such as vee, concave, convex, gear forms), serrations, forms (indexed, rotated, special)
	Metal and non-metals: Different materials: steel/stainless steel,
	aluminum/aluminum alloys, copper/copper alloys, cast iron, plastic
	PC22. produce components as per given quality standards
	Components quality standards as per the process: e.g. components to be
	free from false tool cuts, burrs and sharp edges; dimensional tolerance 0.020







National Occupational Standards

CSC/N0108	Operate conventional milling machines
	to 0.030 mm; flatness and squareness within 0.125mm; surface finish 63µin
	or 1.6μm; angles within +/- 1 degree, etc.
	PC23. plan and work accordingly to achieve given production targets
	PC24. overcome the effects of backlash in machine slides and screws
	PC25. apply roughing and finishing cuts considering the effect on tool life, surface
	finish and dimensional accuracy
	PC26. apply cutting fluids with regard to a range of different materials
	PC27. clamp the work piece securely and without distortion in a chuck/work holding
	device such as vice, V-block, clamp, angle plate, etc.
	PC28. report any difficulties or problems that may arise with the milling activities,
	and carry out any agreed actions
	PC29. shut down the equipment to a safe condition on completion of the milling
	activities
	Safe conditions: correctly isolated; cleaning the machine; removing and disposing of waste correctly
	PC30. use range of equipment to check critical parameters
	Range of checking equipment: e.g. tri-square, bevel protractor, vernier
	caliper, micrometers (internal, external, depth), height gauge, go-no-go
	gauges, spring caliper, etc
	Critical parameters: dimensions, squareness, hole size/fit, angles, flatness;
	surface finish; slots; recesses
	PC31. perform the checks to be carried out on the components before removing
	them from the machine, and on the equipment needed for this activity
	PC32. ensure that the quality control procedures are used while operating the
	equipment
Handle unresolved	To be competent, the user/individual on the job must be able to:
problems	PC33. refer the problem to a competent internal specialist if it cannot be resolved
	PC34. obtain help or advice from specialist if the problem is outside his/her area of
	competence or experience
Knowledge and Unders	standing (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. legislation, standards, policies, and procedures followed in the company
(Knowledge of the	relevant to own employment and performance conditions
company /	KA2. relevant health and safety requirements applicable in the work place
organization and	KA3. importance of working in clean and safe environment
its processes)	KA4. own job role and responsibilities and sources for information pertaining to
	employment terms, entitlements, job role and responsibilities
	KA5. reporting structure, inter-dependent functions, lines and procedures in the
	work area
	KA6. relevant people and their responsibilities within the work area





Operate conventional milling machines



	KA7.	escalation matrix and procedures for reporting work and employment related
		issues
	KA8.	documentation and related procedures applicable in the context of
		employment and work
	KA9.	importance and purpose of documentation in context of employment and
		work
B. Technical	The use	r/individual on the job needs to know and understand:
Knowledge	KB1.	wear personal protective equipment to be worn can be obtained
	KB2.	hazards associated with the milling operations and how they can be
		minimized
	КВЗ.	importance of keeping the work area clean and tidy
	KB4.	where to obtain the component drawings, specifications and/ or job
		instructions required for them components to be machined
	KB5.	how to read and interpret first and third angle component drawings
	KB6.	how to extract information from engineering drawings or data and related

ned can be / or job awings a and related specifications how to use British and metric systems of measurement **KB7**. KB8. main parts of conventional milling machines and the accessories that can be used Milling machines: horizontal milling machine, vertical milling machine Accessories: e.g. saddle, compound slide, tailstock, profile attachments, fixed and live stays, etc purpose and applications of milling KB9. KB10. different types of milling cutters and their uses KB11. various milling operations that can be performed, and the features produced on metal and non-metal components Milling operations: e.g. milling of flat services; gang and straddle milling; milling of sunk and recessed surfaces, face milling, side milling, angular milling, slotting, slitting, key way cutting, face slot cutting, woodruff cutting, dovetail cutting, etc. Features: faces (flat, square, parallel, angular); steps/shoulders, slots (enclosed, open ended, tee slots), recesses, holes (drilled, bored), profile forms (such as vee, concave, convex, gear forms), serrations, forms (indexed, rotated, special) KB12. processes of milling e.g. up milling, down milling, face milling, end milling, etc. KB13. effects of backlash in machine slides and screws, and how this can be overcome KB14. effects of clamping the workpiece in a chuck/ work holding device, and how this can cause distortion in the finished components

KB15. production cost, machine hour rate, raw material cost, tool cost, coolant cost,







CSC/N0108	Operate conventional milling machines		
	overheads, cycle time, idle time, cost of machine idling, part rejection cost		
	KB16. selection of cutting tools, tool materials, chip breaker geometry, selecting		
	cutting parameters from tool catalogues, selecting coolant		
	KB17. relationship between metal cutting results, tool nose radius, speed and feed		
	rate		
	KB18. how to recognize machining faults and how to identify when tools need resharpening		
	KB19. problems that can occur with the milling activities, and how these can be overcome		
	KB20. extent of their own authority and to whom they should report if they have		
	problems that they cannot resolve		
	KB21. safe working practices and environmental regulations that must be observed		
	KB22. importance of reporting problems in a timely manner		
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 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 numerical operations, and calculations/ formulae		
	Numerical computations: addition, subtraction, multiplication, division,		
	fractions and decimals, percentages and proportions, simple ratios and		
	averages		
	Algebraic expressions: represent numerical quantities using symbols, apply		
	laws of precedence in the use of precedence (BODMAS)		
	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,		
	Compound shapes: involving squares, rectangles, triangles, circles, semicircles, quadrants of a circle Solid shapes: cube, rectangular prism, cylinder		
	Compound shapes: involving squares, rectangles, triangles, circles, semicircles, quadrants of a circle Solid shapes: cube, rectangular prism, cylinder SA5. use appropriate measuring techniques and units of measurement		
	Compound shapes: involving squares, rectangles, triangles, circles, semicircles, quadrants of a circle Solid shapes: cube, rectangular prism, cylinder SA5. use appropriate measuring techniques and units of measurement		







SC/N0108	Operate conventional milling machines Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to: SA8. convey and share technical information clearly using appropriate language SA9. check and clarify task-related information SA10. liaise with appropriate authorities using correct protocol SA11. communicate with people in respectful form and manner in line with		
3. Professional Skills	organizational protocol 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		
	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		







CSC/N0108	Operate conventional milling machines
	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









Operate conventional milling machines

NOS Version Control

NOS Code		CSC/N0108	
Credits	TBD	Version number	1.0
Industry	Capital Goods	Drafted on	10/04/2014
Industry Sub-sector	 Machine Tools Dies, Moulds and Press Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods 	Last reviewed on	24/11/2017
Occupation	Machining	Next review date	24/11/2021

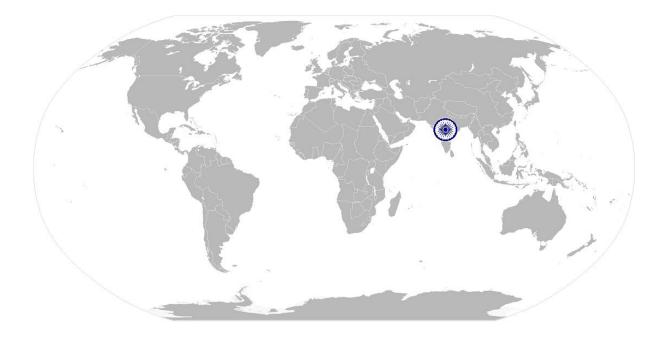






CSC/N1335 Use basic health and safety practices at the workplace

National Occupational Standard



Overview

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







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

Unit Code	CSC/N1335
Unit Title (Task)	Use basic health and safety practices at the workplace
Description	This OS unit is about knowledge and practices relating to health, safety and security that candidates need to use in the workplace. It covers responsibilities towards self, others, assets and the environment.
Scope	 This unit/task covers the following: Health and safety Fire safety Emergencies, rescue and first-aid procedure
Performance Criteria	(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 asbeatos 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 PC4. identify radiation; hazardous surfaces (sharp, slippery, uneven, chipped, broken, etc.); hazardous substances (chemicals, gas, oxy-fuel, fumes, dust, etc.); physical hazards (working at heights, large and heavy objects and machines, sharp and piercing objects, tolls and machines, intense light, load noise, obstructions in corridors, by doors, blind turns, noise, over stacked shelves and packages, etc.) electrical machines and appliances, etc.) Possible causes of risk and accident: physical actions; reading; listening to and giving instructions; inattention; sickness and incapacity (such as







CSC/N1335 U	se 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 rol
	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 crac
	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 building
	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 the correct use of a fire extinguisher
Emergencies, rescue and first-aid procedures	 To be competent, the user/individual on the job must be able to: PC18. demonstrate how to free a person from electrocution PC19. administer appropriate first aid to victims where required eg. in case of bleeding, burns, choking, electric 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,







	PC27. demonstrate correct method to move injured people and others during an emergency
Knowledge and Unders	tanding (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) 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 at various hazardous sites 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 KB2. precautionary activities to prevent the fire accident KB3. various causes of fire Causes of fires: heating of metal; spontaneous ignition; sparking; electrical







ODS SKILL COUNCIL	National Occupational Standards
CSC/N1335 Use	basic health and safety practices at the workplace
	heating; loose fires (smoking, welding, etc.); chemical fires; etc.
	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 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)	
A. Core Skills/	Reading Skills

JKI			
Α.	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)		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	
В.	Professional Skills	s 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:		Plan and Organize	
		· · · · · · · · · · · · · · · · · · ·	
		SB2. plan and organize their own work schedule, work area, tools, equipment and	







<u>CSC/N1335</u> Use	e basic health and safety practices at the workplace		
materials to maintain decorum and for improved productivity			
	Customer Centricity		
	The user/individual on the job needs to know and understand how to:		
	SB3. remain congenial while discussing and debating issues with co-workers		
	SB4. follow appropriate protocols for communication based on situation, hierarchy, organizational culture and practice		
	SB5. ask for, provide and receive required assistance where possible to ensure achievement of work related objectives		
	SB6. thank coworkers for any assistance received		
	SB7. offer appropriate respect based on mutuality and respect for fellow		
	workmanship and authority		
	Problem Solving		
	 The user/individual on the job needs to know and understand how to: SB8. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) SB9. identify immediate or temporary solutions to resolve delays SB10. identify sources of support that can be availed of for problem solving for various kind of problems SB11. seek appropriate assistance from other sources to resolve problems SB12. report problems that you cannot resolve to appropriate authority 		
	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		
	3		







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

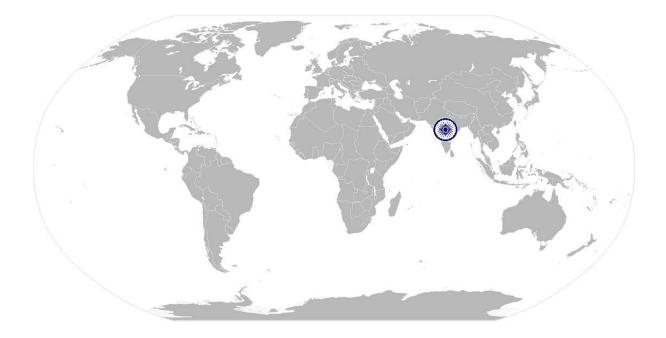






Work effectively with others

National Occupational Standard



Overview

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







Work effectively with others

/	Unit Code	CSC/N1336	
	Unit Title (Task)	Work effectively with others	
	Description	This unit covers basic etiquette and competencies that a candidate is required to possess and demonstrate in their behavior and interactions with others at the workplace. These cover areas such as communication etiquette, discipline, listening etc.	
	Scope	 This unit/task covers the following: Work effectively with others 	
	Performance Criteria (F	PC) 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	standing (K)	
	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/	Reading Skills	
Generic Skills	The user/ individual on the job needs to know and understand how to:	
	SA1. read basic terms and terminologies to accurately interpret work related	
	documents, labels, supervisor instructions in the local language	
	SA2. read and interpret accurate information from various relevant work	
	instructions and records	
	Writing Skills	
	The user/ individual on the job needs to know and understand how to:	
	SA3. write clear and legible notes to self, colleagues and seniors to pass messages,	
	keep records, prepare to-do lists, take down instructions	
	SA4. write basic numbers, quantities and work related terminology for operational	
	requirements in the local language	







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







Work effectively with others

NOS Version Control

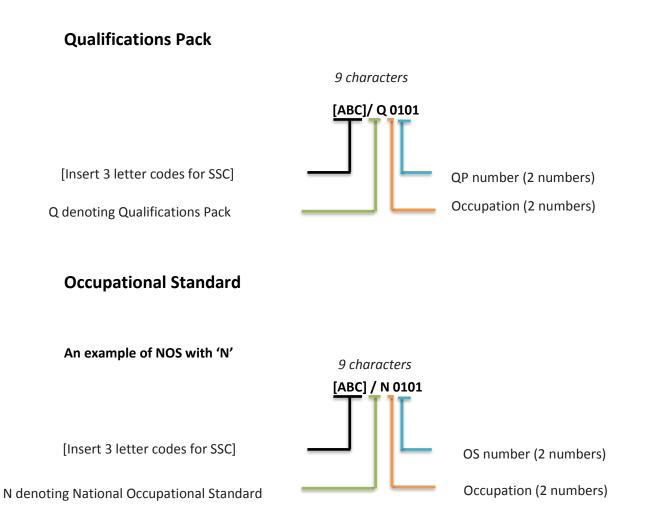
NOS Code	CSC/N1336			
Credits	TBD	Version number	1.0	
Industry	Capital Goods	Drafted on	10/04/2014	
Industry Sub-sector	 Machine Tools Dies, Moulds and Press Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Electrical and Power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





Annexure

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 Q P or N OS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01





Criteria For Assessment Of Trainees

Job Role: Operator - Conventional Milling

Qualification Pack: CSC/Q0108

Sector Skill Council: Capital Goods Skills Council

Guidelines for Assessment

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.

2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.

3. 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	Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out of	Theory	Skills Practical	
CSC/N0108 Operate conventional milling machines	PC1.comply with health and safety, environmental and other relevant regulations and guidelines at work		3	1	2	
	PC2.adhere to procedures and guidelines for personal protective equipment (PPE) and other relevant safety regulations while performing machining operations	100	3	1	2	
	PC3.work following laid down procedures and instructions		3	1	2	
	PC4.ensure work area is clean and safe from hazards		2	0	2	
	PC5.ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition		2	0	2	
	PC6.check that all measuring equipment is within calibration date	1	2	0	2	





PC7.ensure that the components used are free from foreign objects, dirt or other contamination		2	0	2
PC8.ensure availability of job specification from a valid source	-	2	0	2
PC9.read and establish job requirements from the job specification document (to include symbols and conventions to appropriate ISO standards in relation to work undertaken)		3	1	2
PC10.prepare and maintain the work area as per procedure or operation specification	-	3	1	2
PC11.confirm with the machine setter that the machine is ready for production	-	2	0	2
PC12.seek any necessary instruction/training on the operation of the various milling machines, where appropriate	-	3	0	3
PC13.ensure that machine guards are in place and are correctly adjusted	-	3	1	2
PC14.identify different types of cutters used in horizontal and vertical milling machines	-	3	0	3
PC15.identify different parts of the vertical and horizontal milling machine	-	3	0	3
PC16.hold components securely, without distortion	-	2	0	2
PC17.ensure that machine settings are adjusted as and when required to maintain the required accuracy and quality standards		3	1	2
PC18.operate the machine controls in both hand and power modes	-	3	0	3
PC19.stop the machine in both normal and emergency situations, and use correct procedure for restarting after an emergency	-	3	1	2
PC20.use British and metric systems of measurement	-	3	1	2
PC21.perform various milling operations to produce various features on metal and non-metal components		5	1	4
PC22.produce components as per given quality standards	-	5	1	4
PC23.plan and work accordingly to achieve given production targets	-	5	1	4
PC24.overcome the effects of backlash in machine slides and screws	-	3	1	2





PC25.apply roughing and finishing cuts considering the effect on tool life, surface finish and dimensional accuracy 3 0 3 PC26.apply cutting fluids with regard to a range of different materials 3 0 3 PC27.clamp the work holding device such as vice, V-block, clamp, angle plate, etc. 3 0 3 PC28.report any difficulties or problems that may arise with the milling activities and carry out any agreed actions 3 0 3 PC29.shut down the equipment to a safe condition on completion of the milling activities 3 0 3 PC30.use range of equipment to check critical parameters 2 0 2 PC31.perform the checks to be carried out on the components before removing them from the machine, and on the equipment 3 1 2 PC32.ensure that the quality control procedures are used while operating the equipment 3 1 2 PC31.perform the checks to be carried out on the components before removing them from specialist if the problem is outside his/her area of competence or experience 3 1 2 PC32.ensure that the quality control procedures are used while operating the equipment 5 2 3 PC3.use frage of completence or experience 3 1 2 PC3.use frage of completence or experience <th></th> <th></th> <th>1</th> <th></th> <th></th> <th></th>			1			
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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	F	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		10	3	7
	PC4.display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible	100	10	3	7
	PC5.consult with and assist others to maximize effectiveness and efficiency in carrying out tasks		10	3	7
	PC6.display appropriate communication etiquette while working		10	3	7
	PC7.display active listening skills while interacting with others at work		10	3	7
	PC8.use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism		10	3	7
	PC9.demonstrate responsible and disciplined behaviors at the workplace		10	3	7
	PC10.escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict		10	3	7
		Total	100	30	70