





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 - Boring Machine

SECTOR/S: CAPITAL GOODS

SUB-SECTOR:

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

OCCUPATION: Machining

REFERENCE ID: CSC/Q0107

ALIGNED TO: NCO-2004/8211.40

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

Brief Job Description: It involves performing boring operations in sheet, plate, rolled section or pipe using horizontal and/or vertical boring machines. Preparation for boring activities and select the appropriate horizontal boring tools and cutters, check them for defects, mount and secure them to the relevant tool holding devices and machine spindle to be used.

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









Qualifications Pack Code	CSC/Q0107		
Job Role	Operator - Boring Machine [Applicable for National Scenarios]		
Credits	TBD	Version number	1.0
Sector	Capital Goods	Drafted on	10/04/2014
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	19/05/2015		



Qualifications Pack For Operator - Boring Machine





Job Role	Operator - Boring Machine	
Role Description	Perform machining operations on various components using horizontal and/ or vertical boring machines.	
NSQF level	2	
Minimum Educational Qualifications	10 th Standard Pass, preferably	
Maximum Educational Qualifications	Not Applicable	
Prerequisite License or Training	No Previous Training Required	
Minimum Job Entry Age	18 Years	
Experience	No Previous Experience Required	
Applicable National Occupational Standards (NOS)	Compulsory: 1. CSC/N0107 Perform machining operations using horizontal and/or vertical boring machines 2. CSC/N1335 Use basic health and safety practices at the workplace 3. 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 specific designated responsibilities.		



Qualifications Pack For Operator - Boring Machine





Acronyms

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
CO ₂	Carbon Dioxide
CO ₂ CPR	Carbon Dioxide Cardiac Pulmonary Resuscitation

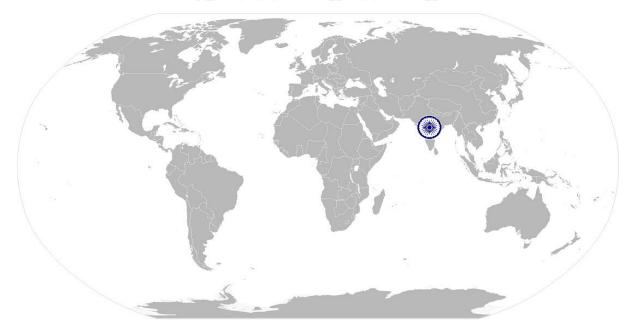








National Occupational Standard



Overview

This unit covers performing machining operations on various components using horizontal and/ or vertical boring machines.



Unit Code







CSC/N0107 Perform machining operations using horizontal and/ or vertical boring machines

CSC/N0107

Unit Title	Perform machining operations using horizontal and/or verticalboring machines		
(Task) Description	This unit covers performing boring operations in sheet, plate, rolled section or pipe using horizontal and/ or vertical boring machines in accordance with approved procedures.		
Scope	 Work safely Carry out boring operations and its preparation Handle of unresolved problems Process Compliances 		
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 PC3. ensure work area is clean and safe from hazards PC4. ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition PC5. ensure that all hand tools and equipment used are in a safe and serviceable condition and are correctly guarded at all times		
Carry out boring operations and its preparation	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 availability of job specification from a valid source Job specifications: instructions from supervisor/in charge, operational drawings; approved sketches/illustrations Valid sources: job instruction sheet/job card; work drawings; supervisor/in charge PC8. read and establish job requirements from the job specification document PC9. ensure that the incoming components used are free from foreign objects, dirt or other contamination PC10. prepare and maintain the work area as per procedure or specification received PC11. plan to carry out the required boring activities and the sequence of		









		machines
		operations as per instructions or specifications received
	PC12.	apply safe working practices and procedures at all times
	PC13.	obtain all the appropriate materials, tools and equipment required for the
		boring operation
	PC14.	define cutting parameters
	PC15.	measure, mark out the component to be bored as per instructions or
		specifications received
	PC16.	prepare and set up the machine speeds to meet requirements following
		manufacturers' instructions and company procedures
	PC17.	select the appropriate boring tools and cutters and check them for defects
		Boring tools and cutters: boring, turning, facing, recessing, twist drills,
		chamfering or radii, reamers, taps
	PC18.	mount and secure component to be bored as well as the tools/cutters to the
9	£ 38.8	relevant work and tool holding devices and machine spindle, based on the
		operations to be performed and the size of the component
	no a	Work and tool holding devices: jigs/fixtures; machine vice; clamps (eg.
		magnetic, vacuum); jaw (eg. soft, hard, three/four jaw chucks,);
		pneumatic/magnetic table; indexing ptating device; vee block; angle plate
	PC19.	use and maintain hand ancillary equipment
	PC20.	operate machinery including parallel line and taper boring, facing, turning,
	14	drilling and reaming to drawing specifications
	PC21.	perform the technique of trial cut for checking dimensional accuracy across
		various parameters
		Parameters: external diameters, internal diameters, lengths/depths, reamed
		hole size/fit, tapers/angles, thread fit, slot/recess width, surface finish,
		flatness of faces, squareness of faces
	PC22.	produce component to specification using standard operating procedures
	PC23.	monitor the machinery and quality of the finished product following company
		procedures and manufacturers' instructions
	PC24.	achieve given production targets
	PC25.	maintain machinery following company procedures and manufacturers'
		instructions within the limits of candidate's responsibility
	PC26.	recognise any difficulties with the process to the required quantity and
		quality and correct them, report difficulties outside candidate's control to the
		appropriate person
	PC27.	carry out work to the required quality and output to meet agreed production
		schedules and targets
	PC28.	record information on the process in the appropriate information systems









machines				
Handle of unresolved				
problems	PC29. refer the problem to a competent specialist if it cannot be resolved			
	PC30. obtain help or advice from specialist if the problem is outside candidate's			
	area of competence or experience			
Process Compliances To be competent, the user/individual on the job must be able to:				
PC31. comply with relevant legislation, standards, policies and procedures				
Knowledge and Understanding (K)				
A. Organizational	The user/individual on the job needs to know and understand:			
Context	KA1. legislation, standards, policies, and procedures followed in the company			
(Knowledge of the relevant to own employment and performance conditions				
company /	KA2. relevant health and safety requirements applicable in the work place			
organization and	KA3. importance of working in clean and safe environment			
its processes)	KA4. own job role and responsibilities and sources for information pertaining to			
,	employment terms, entitlements, job role and responsibilities			
	KA5. reporting structure, inter-dependent functions, lines and procedures in the			
	work area			
	KA6. relevant people and their responsibilities within the work area			
	KA7. escalation matrix and procedures for seporting work and employment related			
	issues			
	KA8. documentation and related procedures applicable in the context of			
	employment and work			
	KA9. importance and purpose of documentation in context of employment and			
	work			
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge	KB1. how to interpret drawings, specifications, schedules, cutting lists, risk			
Miowicage	assessments and manufacturers' information related to the work to be			
	carried out			
	KB2. how to handle resources associated with own work following company			
	procedures			
	· ·			
	KB3. how to interpret first and third angle drawings, imperial and metric systems			
	of measurement, workpiece reference points and system of tolerancing			
	KB4. various types and application of boring machines			
	Horizontal boring machines: table type, floor type			
	Vertical boring machines: double column, single column			
	KB5. various boring tools and tool holders			
	KB6. calculations for determining cutting parameters and checking tolerances			
	within the scope of this unit			
	KB7. methods of holding and securing the boring and finishing tools into the			
	machine spindle			









	machines			
	KB8. methods of holding and securing and aligning the workpieces for boring			
	KB9. procedures and techniques for carrying out horizontal and vertical boring			
	operations			
	KB10. appropriate techniques, tools and equipment to measure components			
	KB11. how to prepare material for use including measuring, marking out, adjusting,			
	fitting, finishing and securing			
	KB12. how to prepare and set up the machine following manufacturers' instructions			
	and company procedures			
	KB13. how to operate machinery and monitor the machinery and quality of the finished product following company procedures and manufacturer's			
	finished product following company procedures and manufacturer's instruction			
	KB14. how to identify appropriate tooling to meet requirements, following			
	manufacturer's instructions and company procedures			
	KB15. how to set up and change appropriate tooling to meet requirements			
	following manufacturer's instructions and company procedures			
	KB16. required machine speeds to meet requirements following manufacturer's			
	instructions and company procedures			
	KB17. consequences of varying the speeds and feeds from the optimum rates			
	KB18. how to maintain machinery and hand ancillary equipment following company			
	procedures and manufacturers' instructions			
	KB19. difficulties that can occur with the process and how to correct them, who to			
	report difficulties			
	KB20. what information systems should be used and why it is important to use the			
	information systems			
	KB21. hazards and control measures associated with horizontal and/or vertical			
	boring, including housekeeping			
Skills (S)				
A. Core Skills/	Reading Skills			
Generic Skills	The user/ individual on the job needs to know and understand how to:			
	SA1. read and interpret information correctly from various job specification			
	documents, health and safety instructions, memos, etc. applicable to the job			
	in English and/or local language			
	Writing Skills			
	The user/individual on the job needs to know and understand how to:			
	SA2. fill up appropriate technical forms, process charts, activity logs as per			
	organizational format in English and/or local language			
	SA3. undertake numerical operations, geometry and calculations/ formulae Numerical computations: addition, subtraction, multiplication, division,			









	fractions and decimals, percentages and proportions, simple ratios and		
	averages		
	SA4. identify various basic, compound and solid shapes as per dimensions given		
	Basic shapes: square, rectangle, triangle, circle		
	Compound shapes: involving squares, rectangles, triangles, circles, 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		
	SA7. Units and number systems representing degree of accuracy: decimals places,		
	significant figures, fractions as a decimal quantity		
	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		
	organizational protocol		
B. Professional Skills	Decision Making		
	NA		
	Plan and Organize		
	The user/individual on the job needs to know and understand how to:		
	SB1. plan, prioritize and sequence work operations as per job requirements		
	SB1. plan, prioritize and sequence work operations as per job requirements		
	SB2. organize and analyze information relevant to work		
	SB2. organize and analyze information relevant to work SB3. basic concepts of shop-floor work productivity including waste reduction,		
	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		
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	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		
	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		
	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		
	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		
	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		









SB11. identify problems w	th 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









NOS Version Control

NOS Code		CSC/N0107		
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 Light Engineering Goods 	Last reviewed on	24/11/2017	
Occupation	Machining	Next review date	24/11/2021	









Use basic health and safety practices at the workplace

National Occupational Standard



Overview

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









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

Unit Code	CSC/N1335		
Unit Title (Task)	Use basic health and safety practices at the workplace		
Description	This OS unit is about knowledge and practices relating to health, safety and security that candidates need to use in the workplace. It covers responsibilities towards self, others, assets and the environment.		
Scope	This unit/task covers the following:		
	Health and safety		
	Fire safety		
	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, culfiess (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
- 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

working in confined places, trenches or at heights, etc. including safety

- PC7. state location of general health and safety equipment in the workplace General health and safety equipment: fire extinguishers; first aid equipment; safety instruments and clothing; safety installations(eg fire exits, exhaust fans)
- PC8. inspect for faults, set up and safely use steps and ladders in general use Ladder faults: corrosion of metal components, deterioration, splits and cracks timber components, imbalance, loose rungs, missing/ unfixed nuts or bolts, etc.
 - Ladders set up: firm/level base, clip/lash down, leaning at the correct angle, etc.
- PC9. work safely in and around trenches, elevated places and confined areas
- PC10. lift heavy objects safely using correct procedures
- PC11. apply good housekeeping practices at all times

 Good housekeeping practices: clean/tidy work areas, removal/disposal of
 waste products, protect surfaces
- PC12. identify common hazard signs displayed in various areas

 Various areas: on chemical containers; equipment; packages; inside buildings;
 in open areas and public spaces, etc.
- PC13. retrieve and/or point out documents that refer to health and safety in the workplace

 Documents: fire notices, accident reports, safety instructions for equipment









	and procedures, company notices and documents, legal documents (eg
	government notices)
Fire safety	To be competent, the user/individual on the job must be able to:
	PC14. use the various appropriate fire extinguishers on different types of fires
	correctly
	Types of fires: Class A: eg. ordinary solid combustibles, such as wood, paper
	cloth, plastic, charcoal, etc.; Class B: flammable liquids and gases, such as
	gasoline, propane, diesel fuel, tar, cooking oil, and similar substances; Class (
	eg. electrical equipment such as appliances, wiring, breaker panels, etc.
	(These categories of fires become Class A, B, and D fires when the electrical
	equipment that initiated the fire is no longer receiving electricity); Class D:
	combustible metals such as magnesium, titanium, and sodium (These fires
	burn at extremely high temperatures and require special suppression agents
	PC15. demonstrate rescue techniques applied during fire hazard
	PC16. demonstrate good housekeeping in order to prevent fire hazards
	PC17. demonstrate the correct use of a fire extinguisher
Emergencies, rescue	To be competent, the user/individual on the job must be able to:
and first-aid	PC18. demonstrate how to free a person from electrocution
procedures	PC19. administer appropriate first aid to ms where required eg. in case of
	bleeding, burns, choking, electric shock, poisoning etc.
	PC20. demonstrate basic techniques of bandaging
	PC21. respond promptly and appropriately to an accident situation or medical
	emergency in real or simulated environments
	PC22. perform and organize loss minimization or rescue activity during an accident
	in real or simulated environments
	PC23. administer first aid to victims in case of a heart attack or cardiac arrest due t
	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
	1 027. demonstrate correct method to move injured people and others during an









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

Use basic health and safety practices at the workplace			
Knowledge and Unders	standing (K)		
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. names (and job titles if applicable), and where to find, all the people responsible for health and safety in a workplace KA2. names and location of documents that refer to health and safety in the workplace		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	 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 with tools and machines KB7. safe working practices while working at various hazardous sites KB8. where to find all the general health and safety equipment in the workplace KB9. various dangers associated with the use of electrical equipment KB10. preventative and remedial actions to be taken in the case of exposure to toxic materials Exposure: ingested, contact with skin, inhaled Preventative action: ventilation, masks, protective clothing/ equipment); Remedial action: immediate first aid, report to supervisor Toxic materials: solvents, flux, lead KB11. importance of using protective clothing/equipment while working KB12. precautionary activities to prevent the fire accident KB13. various causes of fire Causes of fires: heating of metal; spontaneous ignition; sparking; electrical 		
	heating; loose fires (smoking, welding, etc.); chemical fires; etc. KB14. techniques of using the different fire extinguishers		









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









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

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

Problem Solving

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

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

Analytical Thinking

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

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

Critical Thinking

NA









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 Light Engineering Goods 	Last reviewed on	24/11/2017
Occupation	Machining	Next review date	24/11/2021



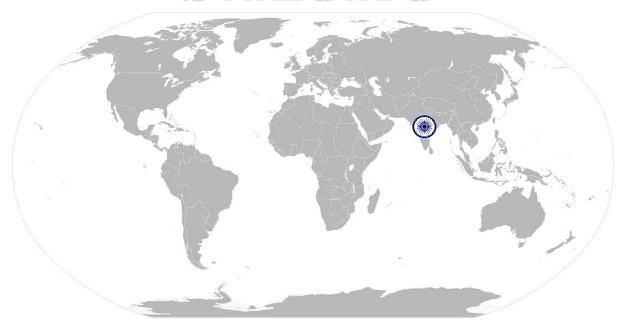






Work effectively with others

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	Work effectively with others		
(Task) Description Scope	This unit covers basic etiquette and competencies that a candidate is required to possess and demonstrate in their behavior and interactions with others at the workplace. These cover areas such as communication etiquette, discipline, listening etc. This unit/task covers the following: • Work effectively with others		
Performance Criteria(P	C) w.r.t. the Scope		
Work effectively with others	To be competent, the user/individual on the job must be able to: PC1. receive information accurately and instructions from the supervisor and fellow workers, getting clarification where required PC2. pass information accurately 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	F 1 2 2		
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		
	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		
	ing Skills		
	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.		
	SA3. write clear and legible notes to self, colleagues and seniors to pass messages, keep records, prepare to-do lists, take down instructions		
	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		









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 Electrical and Power Machinery Goods 	Last reviewed on	24/11/2017
Occupation	Machining	Next review date	24/11/2021



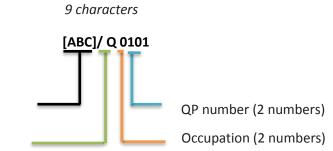




Annexure

Nomenclature for QP and NOS

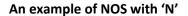
Qualifications Pack



[Insert 3 letter codes for SSC]

Q denoting Qualifications Pack

Occupational Standard



[Insert 3 letter codes for SSC]

N denoting National Occupational Standard



Back to top...







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

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

Sequence	Description	Example
Three letters	Capital Goods	CSC
Slash	/	/
Next letter	Whether 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 - Boring Machine

Qualification Pack: CSC/Q0107

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/N0107 Perform	PC1.comply with health and safety, environmental and other relevant regulations and guidelines at work	100	3	1	2
machining operations using horizontal and/or vertical boring machines	PC2.adhere to procedures and guidelines for personal protective equipment (PPE) and other relevant safety regulations while performing machining 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 hand tools and equipment used are in a safe and serviceable condition and are correctly guarded at all times		2	0	2
	PC6.check that all measuring equipment is within calibration date		2	0	2
	PC7.ensure availability of job specification from a valid source		2	0	2



Qualifications Pack for Operator - Boring Machine





PCB. read and establish job requirements from the job specification document PCP. surve that the incoming components used are free from foreign objects, dirt or other contamination PC10.prepre and maintain the work area as per procedure or specification received PC11.plan to carry out the required boring activities and the sequence of operations as per instructions or specifications received PC12.apply safe working practices and procedures at all times PC13.obtain all the appropriate materials, tools and equipment required for the boring operation PC14.define cutting parameters PC15.measure, mark out the component to be bored as per instructions or specifications received PC15.measure, mark out the component to be bored as per instructions or specifications received PC15.measure, mark out the component to be bored as per instructions or specifications received PC15.measure, mark out the component to be bored as well as the tools/cutter so the reference instructions and company procedures PC15.mount and secure component to be bored as well as the tools/cutters to the relevant work and tool holding devices and machine spindle, based on the operations to be performed and the size of the component PC19.use and maintain hand ancillary equipment PC20.operate machinery including parallel line and taper boring, facing, turning, drilling and reaming to drawing specifications PC21.perform the technique of trial cut for checking dimensional accuracy across various parameters PC25.monitor the machinery and quality of the finished product following company procedures and manufacturers' instructions within the limits of candidate's responsibility PC26.recognise any difficulties with the process to the required quantity and quality and correct them, report difficulties outside candidate's control to the appropriate person PC27.carry out work to the required quality and output to meet agreed production schedules and targets					
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		required quantity and quality and correct them, report difficulties outside candidate's control to the appropriate person	3	0	3
			4	1	3



Qualifications Pack for Operator - Boring Machine





	PC28.record information on the process in the appropriate information systems		3	1	2
	PC29.refer the problem to a competent specialist if it cannot be resolved		3	0	3
	PC30.obtain help or advice from specialist if the problem is outside candidate's area of competence or experience		2	0	2
	PC31.comply with relevant legislation, standards, policies and procedures		4	1	3
		Total	100	16	84
CSC/N1335 Use basic health and	PC1.use protective clothing/equipment for specific tasks and work conditions		4	1	3
safety practices at the workplace	PC2.state the name and location of people responsible for health and safety in the workplace		3	1	2
	PC3.state the names and location of documents that refer to health and safety in the workplace		3	1	2
	PC4.identify job-site hazardous work and state possible causes of risk or accident in the workplace		5	2	3
	PC5.carry out safe working practices while dealing with hazards to ensure the safety of self and others		4	2	2
	PC6.state methods of accident prevention in the work environment of the job role		3	2	1
	PC7.state location of general health and safety equipment in the workplace		5	2	3
	PC8.inspect for faults, set up and safely use steps and ladders in general use		5	2	3
	PC9.work safely in and around trenches, elevated places and confined areas		5	2	3
	PC10.lift heavy objects safely using correct procedures	400	4	2	2
	PC11.apply good housekeeping practices at all times	100	5	2	3
	PC12.identify common hazard signs displayed in various areas		3	1	2
	PC13.retrieve and/or point out documents that refer to health and safety in the workplace		4	1	3
	PC14.use the various appropriate fire extinguishers on different types of fires correctly		3	1	2
	PC15.demonstrate rescue techniques applied during fire hazard		3	1	2
	PC16.demonstrate good housekeeping in order to prevent fire hazards		4	1	3
	PC17.demonstrate the correct use of a fire extinguisher		4	1	3
	PC18.demonstrate how to free a person from electrocution		4	1	3
	PC19.administer appropriate first aid to victims where required eg. in case of bleeding, burns, choking, electric shock, poisoning etc.		3	1	2



Qualifications Pack for Operator - Boring Machine





	PC20.demonstrate basic techniques of bandaging		3	1	2
	PC21.respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments		3	1	2
	PC22.perform and organize loss minimization or rescue activity during an accident in real or simulated environments		3	1	2
	PC23.administer first aid to victims in case of a heart attack or cardiac arrest due to electric shock, before the arrival of emergency services in real or simulated cases		3	1	2
	PC24.demonstrate the artificial respiration and the CPR Process		3	1	2
	PC25.participate in emergency procedures		4	1	3
	PC26.complete a written accident/incident report or dictate a report to another person, and send report to person responsible		3	1	2
	PC27.demonstrate correct method to move injured people and others during an emergency		4	2	2
		Total	100	36	64
CSC/N1336 Work effectively with others	PC1.receive information accurately and instructions from the supervisor and fellow workers, getting clarification where required	100	10	3	7
	PC2.pass information accurately to authorized persons who require it and within agreed timescale and confirm its receipt		10	3	7
	PC3.give information to others clearly, at a pace and in a manner that helps them to understand		10	3	7
	PC4.display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible		10	3	7
	PC5.consult with and assist others to maximize effectiveness and efficiency in carrying out tasks		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