



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- Polisher - Manual

SECTOR/S: CAPITAL GOODS

SUB-SECTOR:

- 1. Machine Tools
- Plastics Manufacturing Machinery
 Textile Manufacturing Machinery
- 4. Process Plant Machinery
- 5. Electrical and Power Machinery
- 6. Light Engineering Goods

OCCUPATION: Coating and Painting

REFERENCE ID: CSC/Q0703

ALIGNED TO: NCO-2004/7224.45,7224.55

Brief Job Description: Select appropriate polishing equipment and method to suit work requirements, fitting and adjusting abrasive belts on polishing machines, identifying surface imperfections, understanding processing hazards, finally polishing the material and inspecting the components after polishing.

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/Q0703		
	Job Role	Polisher - Manual [Applicable for National Scenarios]		
ils	Credits	ТВД	Version number	1.0
eta	Sector	Capital Goods	Drafted on	10/04/2014
Job Details	Sub-sector	 Machine Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods 	Last reviewed on	24/11/2017
	Occupation	Coating and Painting	Next review date	24/11/2021
	NSQC Clearance on	1	19/05/2015	-





Job Role	Polisher - Manual	
Role Description	Manual finishing by polishing a wide range of products made from metals and metal alloys used for component machining and manufacturing.	
NSQF level	2	
Minimum Educational Qualifications Maximum Educational Qualifications	8 th Standard pass, preferably 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/N0703 Perform manual polishing on metals and metal alloys 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.		
Jobrole	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.		
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.		
Performance Criteria	Performance criteria are statements that together specify the standard of performance required when carrying out a task.		
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.		
Qualifications Pack(QP)	QP comprises the set of OSs, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.		
ElectivesElectives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple within a QP for each specialized job role. Trainees must select at 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		
Organisational Context	how it operates, including the extent of operative knowledge managers		
Technical Knowledge	have of their relevant areas of responsibility. Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.		
Core Skills/ Generic Core skills or generic skills are a group of skills that are the key to learning			





	Skills	and working in today's world. These skills are typically needed in any working environment in today's world. In the context of the OS, these inclu communication related skills that are applicable to most job roles.	
_	Keywords /Terms	Description	
0	CO ₂	Carbon Dioxide	
	CPR	Cardiac Pulmonary Resuscitation	
	PPE	Personal Protective Equipment	
2			

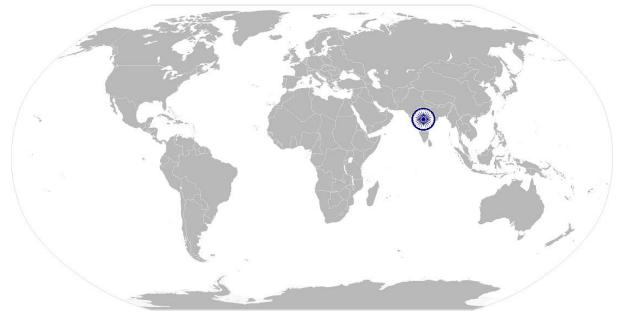






CSC/N0703 Perform manual polishing on metals and metal alloys

National Occupational Standard



Overview

This unit covers finishing by manually polishing a wide range of products made from metals and metal alloys used for component machining and manufacturing.







CSC/N0703 Perform manual polishing on metals and metal alloys

Unit Code	CSC/N0703		
Unit Title (Task)	Perform manual polishing on metals and metal alloys		
Description	This unit covers finishing by manually polishing a wide range of components and products made from metals and metal alloys used for machining and manufacturing. This involves selecting appropriate polishing equipment and method to suit work requirements; fitting and adjusting abrasive belts on polishing machines, identifying surface imperfections, understanding processing hazards and finally polishing the material with appropriate process to match specifications.		
Scope	 This unit/task covers the following: Work safely Prepare for polishing operations Carry out polishing Handle of unresolved problems 		
Performance Criteria(PC) w.r.t. the Scope			
Element	Performance Criteria		
Work safely	 To be competent, the user/individual on the job must be able to: PC1. comply with health and safety, environmental and other relevant regulations and guidelines at work and ensure process compliance PC2. adhere to procedures or systems in place for risk assessment, occupational standards, personal protective equipment (PPE) and other relevant occupational safety regulations PC3. follow laid down procedures and instructions PC4. ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition; are kept at secured location PC5. ensure that all measuring equipment are within calibration date and are approved for usage PC6. ensure work area is clean and safe from hazards before and after the job iscompleted 		
Prepare for polishing operations	 To be competent, the user/individual on the job must be able to: PC7. obtain job specification from a valid and approved source Valid sources: job instruction sheet/job card; work drawings and instructions; planning documentation; quality control documents; process specifications; standard operating procedures; instructions from supervisor PC8. read and establish job requirements from the job specification document accurately Job requirements:raw materials or components required (type, quality, 		







CSC/N0703 Per	form manual polishing on metals and metal alloys				
	quantity); dimensions and surface texture requirements; limits and				
	tolerances; operations required(list, sequence and procedures where				
	applicable); timelines				
	PC9. report and rectify incorrect and inconsistent information in job specification				
	documents as per organization procedures				
	PC10. prepare the work area for the polishing operations as per procedure				
	PC11. obtain correct work-pieces/raw materials and consumables as per job				
	requirements				
	PC12. identify the metals, metal alloys and non-metals accurately for the job				
	PC13. interpret surface finish specifications accurately				
	Parameters to be checked:texture, roughness				
	PC14. select polishing method/technique as per the work requirements				
	PC15. obtain appropriate tools and equipment per job requirements				
Carry out polishing	To be competent, the user/individual on the job must be able to:				
	PC16. fit abrasive belts according to standard operating procedures				
	PC17. fit grinding wheels and mops according to standard operating procedures				
	PC18. install polishing mops and buffs according to standard operating procedures				
	PC19. set work pieces as per job requirements using appropriate positioning and/or holding devices				
	PC20. finish job surfaces to specification according to requirement				
	PC21. check the polished products to ensure completeness of work				
	PC22. identify common surface imperfections and correct errors				
	PC23. complete documentation post completion of work, as per procedure				
	Documentation: job card, progress records, incident reports				
Handle of unresolved	To be competent, the user/individual on the job must be able to:				
problems	PC24. refer unresolved job related problems to appropriate personnel for support				
	PC25. monitor the problem and keep the supervisor informed about progress or any				
	delays in resolving the problem				
Knowledge and Unders	standing (K)				
A. Organizational	The user/individual on the job needs to know and understand:				
Context	KA1. relevant legislation, standards, policies, and procedures followed in the				
(Knowledge of the	company relevant to own employment and performance conditions				
company /	KA2. relevant health and safety requirements applicable in the work place				
organization and	KA3. own job role and responsibilities and sources for information pertaining to				
its processes)	employment terms, entitlements, job role and responsibilities				
	KA4. reporting structure, inter-dependent functions, lines and procedures in the work area				
	KA5. how to engage with specialists for support in order to resolve incidents and service requests				
	KA6. importance of working in clean and safe environment practices and				







CSC/N0703 Pe	erform manual polishing on metals and metal alloys
	procedures
	KA7. relevant people and their responsibilities within the work area
	KA8. escalation matrix and procedures for reporting work and employment related issues
	KA9. documentation and related procedures applicable in the context of
	employment and work
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. kinds of common metals, metal alloys and non-metals
	KB2. common terminology used in polishing procedures
	KB3. polishing media to be used in finishing/polishing for different types of material
	Finishing /polishing media(containing solid and liquid compositions):
	alumina, aluminum oxide, silicon carbide, diamond dust, Tripoli, calcium
	oxide, iron oxides
	Kinds of Materials: cast iron; zinc/zinc alloys; bronzes; low-carbon steel, low
	alloy steels, high yield steels, stainless steels; clad and coated materials;
	aluminum/aluminum alloys; copper/copper alloys
	KB4. kinds of tools and equipment for installing, fitting and adjusting abrasive belts
	on polishing machines
	KB5. procedures, tools and techniques required to fit and dress grinding wheels
	and mops and buffs
	KB6. finishing and polishing methods and techniques and reasons for selecting a specific method or technique
	KB7. polishing operations and importance of procedures of tools and equipment usage for the polishing operations
	Finishing /polishing equipment:abrasive belt for grinders; pedestal grinders
	and polishers; flat wheels; fabric mops and brushes with underhand and
	overhand techniques; flexible drive appliances; buffing compounds; cutting
	compounds and abrasives
	KB8. effect of different types and grades of polishing media used for surface finish
	KB9. importance of following specified polishing sequence and procedures
	KB10. types and sources of appropriate job specifications
	KB11. importance and procedures to ensure suitability of work-pieces/materials and
	consumables for the specified job
	KB12. importance of securing the work-piece/raw material correctly using
	appropriate devices and mechanisms
	KB13. methods and techniques to check for common surface imperfections/defects
	and conformance to specifications
	KB14. common problems that can occur in the polishing activity and procedure
	KB15. surface imperfections/defects that can be removed/repaired by manual
	REES. Surface imperfections/defects that can be removed/repaired by indified







CSC/N0703 Per	form manual polishing on metals and metal alloys			
	finishing/polishing procedures			
	KB16. procedures for handling components with surface imperfections/defects that			
	cannot be removed/repaired and how can they be minimized			
	KB17. importance of tools and equipment to be kept in a safe and usable condition			
	KB18. hazards associated with carrying out the manual finishing/polishing process			
	KB19. personal protective equipment (PPE) and clothing that must be worn during			
	the manual polishing activity and from where can it be obtained			
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 basic numerical computations and calculations			
	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, quadrilaterals			
	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			
	SA6. use appropriate measuring teeriniques and units of measurement SA6. use appropriate units and number systems to express degree of accuracy			
	Units and number systems representing degree of accuracy: decimals places,			
	significant figures, fractions as a decimal quantity			
	SA7. use metric systems of measurement			
	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			







CSC/N0703 Perform manual polishing on metals and metal alloys

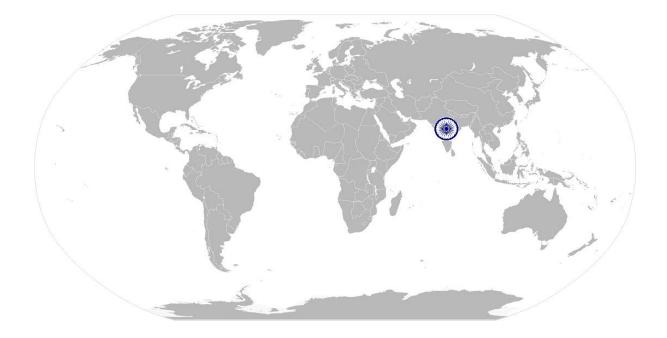
B. Professional Skills	Vertorm manual polishing on metals and metal alloys Ils Decision Making		
	NA		
	Plan and Organize		
	The user/individual on the job needs to know and understand how to: SB1. plan, prioritize and sequence work operations as per job requirements		
	SB2. organize and analyze information 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		
	SB0. manage own time for achieving better results SB7. work in a team in order to achieve better results		
	SB8. identify and clarify work roles within a team		
	SB9. communicate and cooperate with others in the team for better results		
	SB10. seek assistance from fellow team members		
	Problem Solving		
	The user/individual on the job needs to know and understand how to: SB11. identify problems with work planning, procedures, output and behavior and their implications SB12. prioritize and plan for problem solving		
	SB13. communicate problems appropriately to others		
	SB14. identify sources of information and support for problem solving		
	SB15. seek assistance and support from other sources to solve problems		
	SB16. identify effective resolution techniques		
	SB17. select and apply resolution techniques		
	SB18. seek evidence for problem resolution		
	Analytical Thinking		
	The user/individual on the job needs to know and understand how to: SB19. undertake and express new ideas and initiatives to others		
	SB20. modify work plan to overcome unforeseen difficulties or developments that occur as work progresses		
	SB21. participate in improvement procedures including process, quality and internal/external customer/supplier relationships		
	SB22. enhance one's competencies in new and different situations and contexts to		
	achieve more		
	Critical Thinking		







CSC/N0703	CSC/N0703 Perform manual polishing on metals and metal alloys			
	The user/individual on the job needs to know and understand how to:			
	SB23. participate in on-the-job and other learning, training and development			
	interventions and assessments			
	SB24. clarify task related information with appropriate personnel or technical			
	adviser			
	SB25. seek to improve and modify own work practices			
	SB26. maintain current knowledge of application standards, legislation, codes of			
	practice and product/process developments			









CSC/N0703 Perform manual polishing on metals and metal alloys

NOS Version Control

NOS Code	CSC/N0703		
Credits	TBD	Version number	1.0
Industry	Capital Goods	Drafted on	10/04/2014
Industry Sub-sector	 Machine Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods 	Last reviewed on	24/11/2017
Occupation	Coating and Painting	Next review date	24/11/2021

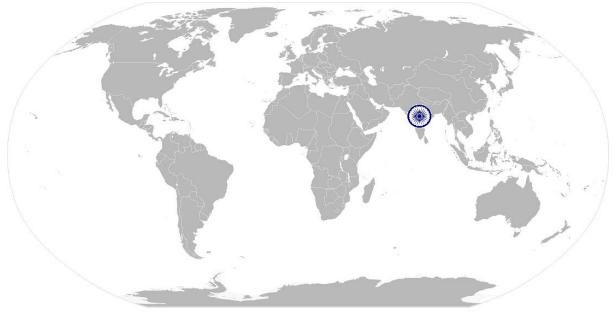






CSC/N1335 Use basic health and safety practices at the workplace

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.
Only The (Task) Description Scope Performance Criteria Element Health and safety	 This unit/task covers the following: Health and safety Fire safety Emergencies, rescue and first-aid procedure
Performance Criteria	a(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 Hazards: sharp edged and heavy tools; heated metals; oxyfuel and gas cylinders; welding radiation; hazardous surfaces(sharp, slippery, uneven, chipped, broken, etc.); hazardous substances(chemicals, gas, oxy-fuel, fumes, dust, etc.); physical hazards(working at heights, large and heavy objects and machines, sharp and piercing objects, tolls and machines, intense light, load noise, obstructions in corridors, by doors, blind turns, noise, over stacked shelves and packages, etc.) electrical machines and appliances, etc.) Possible causes of risk and accident: physical actions; reading; listening to and giving instructions; inattention; sickness and incapacity (such as







CSC/N1335	Use basic health and safety practices at the workplace
	drunkenness); health hazards (such as untreated injuries and contagious
	illness)
	PC5. carry out safe working practices while dealing with hazards to ensure the
	safety of self and others
	Safe working practices: using protective clothing and equipment; putting up
	and reading safety signs; handle tools in the correct manner and store and
	maintain them properly; keep work area clear of clutter, spillage and unsafe
	object lying casually; while working with electricity take all electrical
	precautions like insulated clothing, adequate equipment insulation, use of
	control equipment, dry work area, switch off the power supply when not
	required, etc.; safe lifting and carrying practices; use equipment that is
	working properly and is well maintained; take due measures for safety while
	working in confined places, trenches or at heights, etc. including safety
	harness, fall arrestors, etc.
	PC6. state methods of accident prevention in the work environment of the job role
	Methods of accident prevention: training in health and safety procedures;
	using health and safety procedures; use of equipment and working practices
	(such as safe carrying procedures); safety notices, advice; instruction from
	colleagues and supervisors
	PC7. state location of general health and safety equipment in the workplace
	General health and safety equipment: fire extinguishers; first aid equipment;
	safety instruments and clothing; safety installations(eg fire exits, exhaust
	fans)
	PC8. inspect for faults, set up and safely use steps and ladders in general use
	Ladder faults: corrosion of metal components, deterioration, splits and cracks
	timber components, imbalance, loose rungs, missing/ unfixed nuts or bolts,
	etc.
	Ladders set up: firm/level base, clip/lash down, leaning at the correct angle,
	etc.
	PC9. work safely in and around trenches, elevated places and confined areas
	PC10. lift heavy objects safely using correct procedures
	PC11. apply good housekeeping practices at all times
	Good housekeeping practices: clean/tidy work areas, removal/disposal of
	waste products, protect surfaces
	PC12. identify common hazard signs displayed in various areas
	Various areas: on chemical containers; equipment; packages; inside buildings;
	in open areas and public spaces, etc.
	PC13. retrieve and/or point out documents that refer to health and safety in the
	workplace
	Documents: fire notices, accident reports, safety instructions for equipment







	and procedures, company notices and documents, legal documents (eg
	government notices)
Fire safety	To be competent, the user/individual on the job must be able to: PC14. use the various appropriate fire extinguishers on different types of fires correctly
	Types of fires: Class A: eg. ordinary solid combustibles, such as wood, paper, cloth, plastic, charcoal, etc.; Class B: flammable liquids and gases, such as gasoline, propane, diesel fuel, tar, cooking oil, and similar substances; Class C eg. electrical equipment such as appliances, wiring, breaker panels, etc. (These categories of fires become Class A, B, and D fires when the electrical equipment that initiated the fire is no longer receiving electricity); Class D: combustible metals such as magnesium, titanium, and sodium (These fires burn at extremely high temperatures and require special suppression agents)
	PC15. demonstrate rescue techniques applied during fire hazard PC16. demonstrate good housekeeping in order to prevent fire hazards PC17. demonstrate the correct use of a fire extinguisher
Emergencies, rescue	To be competent, the user/individual on the job must be able to:
and first-aid	PC18. demonstrate how to free a person from electrocution
procedures	PC19. administer appropriate first aid to an 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 o report, location, environment conditions, persons involved, sequence of events, injuries sustained, damage sustained, actions taken, witnesses, supervisor/manager notified
	PC27. demonstrate correct method to move injured people and others during an emergency







Knowledge and Understa	anding (K)
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: 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 basic health and safety practices at the workplace







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







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

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 Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods 	Last reviewed on	24/11/2017
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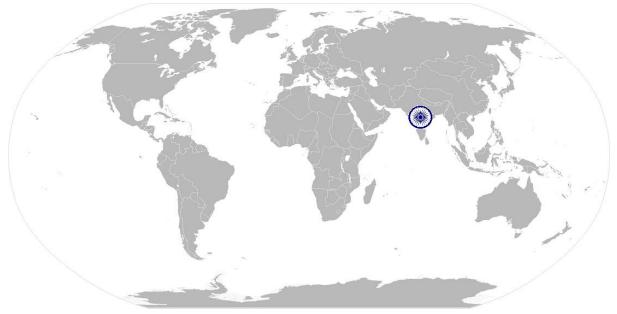




CSC/N1336

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.







CSC/N1336

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(P	C) w.r.t. the Scope
Element	Performance Criteria
Work effectively with others	 To be competent, the user/individual on the job must be able to: PC1. 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	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







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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



NOS	
National Occupational Standards	



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	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







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NOS Version Control

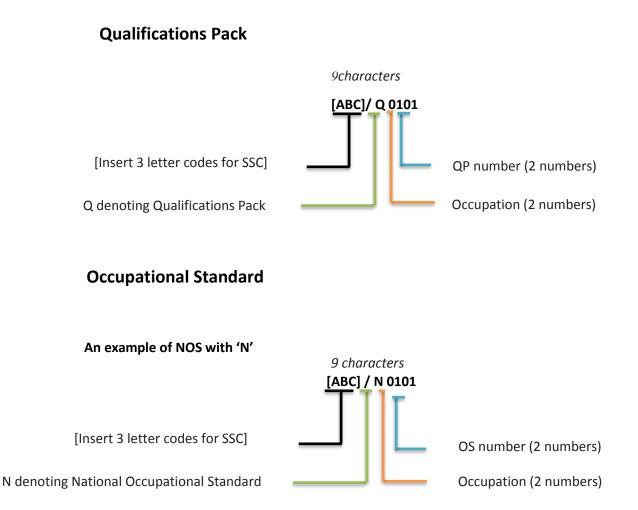
TBD Capital Goods 1. Machine Tools 2. Plastics	Version number Drafted on	1.0 10/04/2014
1. Machine Tools	Drafted on	10/04/2014
Manufacturing Machinery 3. Textile Manufacturing Machinery 4. Process Plant Machinery 5. Electrical and Power Machinery 6. Light Engineering Goods	Last reviewed on	24/11/2017
Coating and Painting	Next review date	24/11/2021
	 Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods 	 Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods





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: Polisher - Manual

Qualification Pack: CSC/Q0703

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/N0703 Perform manual polishing on metals and metal alloys	PC1.comply with health and safety, environmental and other relevant regulations and guidelines at work and ensure process compliance	100	4	1	3
	PC2.adhere to procedures or systems in place for risk assessment, occupational standards, personal protective equipment (PPE) and other relevant occupational safety regulations		5	1	4
	PC3.follow laid down procedures and instructions		4	1	3
	PC4.ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition; are kept at secured location		3	0	3
	PC5.ensure that all measuring equipment are within calibration date and are approved for usage		3	0	3
	PC6.ensure work area is clean and safe from hazards before and after the job is completed		3	0	3
	PC7.obtain job specification from a valid and approved source		3	0	3







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	PC8.read and establish job requirements from the job specification document accurately		4	1	3
	PC9.report and rectify incorrect and inconsistent information in job specification documents as per organization procedures		4	1	3
	PC10.prepare the work area for the polishing operations as per procedure		5	1	4
	PC11.obtain correct work-pieces/raw materials and consumables as per job requirements		4	1	3
	PC12.identify the metals, metal alloys and non-metals accurately for the job		3	0	3
	PC13.interpret surface finish specifications accurately		3	0	3
	PC14.select polishing method/technique as per the work requirements		5	1	4
	PC15.obtain appropriate tools and equipment per job requirements		4	1	3
	PC16.fit abrasive belts according to standard operating procedures		5	1	4
	PC17.fit grinding wheels and mops according to standard operating procedures		5	1	4
	PC18.install polishing mops and buffs according to standard operating procedures		6	1	5
	PC19.set work pieces as per job requirements using appropriate positioning and/or holding devices		5	1	4
	PC20.finish job surfaces to specification according to requirement		4	1	3
	PC21.check the polished products to ensure completeness of work		4	0	4
	PC22.identify common surface imperfections and correct errors		5	0	5
	PC23.complete documentation post completion of work, as per procedure		3	0	3
	PC24.refer unresolved job related problems to appropriate personnel for support		3	0	3
	PC25.monitor the problem and keep the supervisor informed about progress or anydelays in resolving the problem		3	0	3
		Total	100	14	86
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	100	3	1	2
	PC3.state the names and location of documents that refer to health and safety in the workplace		3	1	2







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	PC4.identify job-site hazardous work and state possible causes of risk or accident in the workplace	5	
	PC5.carry out safe working practices while dealing with hazards to ensure the safety of self and others	4	
	PC6.state methods of accident prevention in the work environment of the job role	3	
-	PC7.state location of general health and safety equipment in the workplace	5	
	PC8.inspect for faults, set up and safely use steps and ladders in general use	5	
	PC9.work safely in and around trenches, elevated places and confined areas	5	
-	PC10.lift heavy objects safely using correct procedures	4	
-	PC11.apply good housekeeping practices at all times	5	
	PC12.identify common hazard signs displayed in various areas	3	
	PC13.retrieve and/or point out documents that refer to health and safety in the workplace	4	
	PC14.use the various appropriate fire extinguishers on different types of fires correctly	3	
	PC15.demonstrate rescue techniques applied during fire hazard	3	
	PC16.demonstrate good housekeeping in order to prevent fire hazards	4	
	PC17.demonstrate the correct use of a fire extinguisher	4	
	PC18.demonstrate how to free a person from electrocution	4	
	PC19.administer appropriate first aid to victims where required eg. in case of bleeding, burns, choking, electric shock, poisoning etc.	3	
-	PC20.demonstrate basic techniques of bandaging	3	
	PC21.respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments	3	
	PC22.perform and organize loss minimization or rescue activity during an accident in real or simulated environments	3	
	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	
	PC24.demonstrate the artificial respiration and the CPR Process	3	
	PC25.participate in emergency procedures	4	





	PC26.complete a written accident/incident report or dictate a report to another person, and send report to person responsible		3	1	2
	PC27.demonstrate correct method to move injured people and others during an emergency		4	2	2
		Total	100	36	64
CSC/N1336 Work effectively with others	PC1.receive information accurately and instructions from the supervisor and fellow workers, getting clarification where required		10	3	7
	PC2.pass information accurately to authorized persons who require it and within agreed timescale and confirm its receipt		10	3	7
	PC3.give information to others clearly, at a pace and in a manner that helps them to understand		10	3	7
	PC4.display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible		10	3	7
	PC5.consult with and assist others to maximize effectiveness and efficiency in carrying out tasks	100	10	3	7
	PC6.display appropriate communication etiquette while working		10	3	7
	PC7.display active listening skills while interacting with others at work		10	3	7
	PC8.use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism		10	3	7
	PC9.demonstrate responsible and disciplined behaviors at the workplace		10	3	7
	PC10.escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict		10	3	7
		Total	100	30	70