



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 - Shot Blasting and Grit Blasting

SECTOR/S: CAPITAL GOODS

SUB-SECTOR:

- 1. Machine Tools
- 2. Plastic Manufacturing Machinery
- 3. Textile Manufacturing Machinery
- **OCCUPATION:** Machining

REFERENCE ID: CSC/Q0111

ALIGNED TO: NCO-2004/ 8223.62

Brief Job Description: It involves cleaning, preparing the surface using shot blasting and grit blasting machines and abrasives so that further coating can be done on the components for final finish. It also involves checking the prepared components for smoothness accuracy.

Personal Attributes: Basic communication, numerical and computational abilities. Openness to learning, ability to plan, organise own work, 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.

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





_	Qualifications Pack Code	(CSC/Q0111	
	Job Role	Operator - Shot Blasting and Grit Blasting (Applicable for National Scenarios)		
	Credits	TBD	Version number	1.0
neralls	Sector	Capital Goods	Drafted on	24/04/2014
	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	Machining	Next review date	24/11/2021
	NSQC Clearance on	1	19/05/2015	

Job Details





Job Role	Operator - Shot Blasting and Grit Blasting
Role Description	The individual on the job uses shot blasting and/ or grit blasting equipment and abrasives, to prepare surfaces and enable coating to be applied on material surfaces as per approved procedures.
NSQF level	2
Minimum Educational Qualifications	8 th Standard pass, preferably
Maximum Educational Qualifications	Not Applicable
Prerequisite License or Training	No Previous Training Required
Minimum Job Entry Age	18 Years
Experience	No Previous Experience Required
Applicable National Occupational Standards (NOS)	 Compulsory: 1. <u>CSC/N0111 Prepare surface by shot blasting and/ or grit blasting</u> 2. <u>CSC/N1335 Use basic health and safety practices at the workplace</u> 3. <u>CSC/N1336 Work effectively with others</u>
Performance Criteria	As described in the relevant OS units





Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
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.
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





Core Skills/ GenericCore skills or generic skills are and working in today's world. environment in today's world.		specific designated responsibilities.
		Core skills or generic skills are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. In the context of the OS, these include communication related skills that are applicable to most job roles.
	Keywords /Terms	Description
	Keywords /Terms CO ₂	Description Carbon Dioxide
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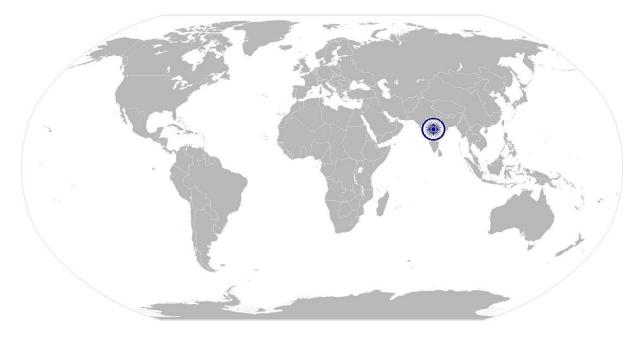






CSC/N0111 Prepare surface by shot blasting and/ or grit blasting

National Occupational Standard



Overview

This unit covers the use of shot blasting and/ or grit blasting equipment and abrasives, toprepare surfaces and enable coating to be applied on material surfaces as per approved procedures.







CSC/N0111 Prepare surface by shot blasting and/ or grit blasting

Unit Code CSC/N0111		CSC/N0111
2	Unit Title (Task)	Prepare surface by shot blasting and/or grit blasting
ואפווטוופו טננטאַמיוטופו טנפווטפוט	Description	This unit covers the use of shot blasting and/ or grit blasting equipment and abrasives, to prepare surfaces and enable coating to be applied on material surfaces as per approved procedures. This involves carrying out preparation on a range of metal surfaces using a range of abrasive blasting equipment such as shot blasting and/ or grit blasting and abrasives.
	Scope	 This unit/task covers the following: Work safely Prepare for carrying out shot blasting and/ or grit blasting Perform shot blasting and/ or grit blasting process
	Performance Criteria(P	
	Element	Performance Criteria
	Work safely	 To be competent, the user/individual on the jab must be able to: PC1. comply with health and safety, environmental and other relevant regulations and guidelines at work and ensure process compliance PC2. adhere to procedures or systems in place for risk assessment, occupational standards, personal protective equipment (PPE) and other relevant occupational safety regulations PC3. work following laid down procedures and instructions PC4. ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition and are kept at secured location PC5. ensure that all measuring equipment are within calibration date and are approved for usage PC6. ensure work area is clean and safe from hazards before and after the job is completed
	Prepare for carrying out shot blasting and/ or grit blasting	 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, quantity); dimensions and surface texture requirements; limits and tolerances; operations required(list, sequence and procedures where







CSC/N0111 Pre	epare surface by shot blasting and/ or grit blasting
	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 shot blasting and/or grit blasting operations as
	per procedure
	PC11. remove paint and corrosion products from ferrous and non-ferrous surfaces
	using shot blasting and grit blasting
	PC12. obtain correct work-pieces/raw materials and abrasives/consumables as per
	job requirements
	Consumables/Abrasive: sandblast gun/nozzles, sandblast hose/couplings,
	aluminium oxide, corn cob, crushed glass grit, steel grit, silicon carbide grit,
	abrasive sand, cut wire shots, steel shots
	PC13. identify the metals, metal alloys and non-metals and surface finish
	specifications accurately
	PC14. ensure selection of surface preparation method/technique as per the work
	requirements
	PC15. ensure availability appropriate tools and equipment per job requirements
	Blasting equipment: portable grit/sand blaster, grit/sandblasting cabinet,
	dust-free/dustless grit/sandblast machine, automatic grit/sandblast
	equipment, pressure/suction feed grit/sandblaster, wet/liquid
	grit/sandblaster, high pressure abrasive grit/sand blaster, cylindrical shot
	blaster, hook type shot blaster
	PC16. set up machines for carrying out blasting
Perform shot blasting	To be competent, the user/individual on the job must be able to:
and/ or grit blasting	PC17. set work pieces as per job requirements using appropriate positioning and/or
process	holding devices
	PC18. carry out the surface preparation process in accordance with standard
	operating procedures
	PC19. check the finish as per job specification
	PC20. check the surface to ensure completeness of work
	PC21. identify common surface imperfections and correct errors
	PC22. complete documentation post completion of work, as per procedure
	PC23. keep finished components as well as raw material as per organizational
	procedure established
	PC24. produce components as per standards applicable to the process and in line
	with production targets
	PC25. report conditions and seek appropriate assistance in a timely manner to
	address risk of failure to comply with necessary targets and specifications
	PC26. deal with finished components as per organizational guidelines
	PC27. complete documentation during and post operations as per organizational







CSC/N0111 Pre	epare surface by shot blasting and/ or grit blasting
	procedures
	PC28. return all tools and equipment to the correct location on completion of the
	fitting activities
	PC29. leave the work area in a safe and tidy condition on completion of job activities
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
(Knowledge of the	thecompany 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
	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 shot blasting and grit blasting procedures
	KB3. abrasives to be used in surface preparation for different types of material
	Types of materials: cast iron and ductile iron; steels (low-carbon, low alloy,
	high yield, stainless); bronzes; aluminum/aluminum alloys
	KB4. kinds of tools & equipment for adjusting settings on machines
	KB5. blasting methods and techniques and types of adjustment made to different
	kinds of equipment settings to prepare surface
	Kinds of blasting equipment:portable grit/sand blaster, grit/sandblasting
	cabinet, dust-free/dustless grit/sandblast machine, automatic grit/sandblast
	equipment, pressure/suction feed grit/sandblaster, wet/liquid
	grit/sandblaster, high pressure abrasive grit/sand blaster, cylindrical shot
	blaster, hook type shot blaster
	KB6. procedures, tools and techniques required to set operational performance
	parameters on machines
	KB7. importance of monitoring the equipment settings and function during the
	blasting process







CSC/N0111	Prepare surface by shot blasting and/ or grit blasting
	KB8. reasons for selecting a specific machine, method or technique for surface
	preparation operations
	KB9. correct procedures of tools and equipment usage for the surface preparation operations
	KB10. effect of different types and grades of surface preparation achievable by
	various machines and abrasive to achieve required surface finish
	KB11. suitability of work-pieces/materials and consumables for the specified job, its importance and procedures
	KB12. 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
	Methods:visual examination, salt testing kit, surface profile gauge, press
	tape, swabs, surface profile comparators
	KB14. common problems that can occur in the surface preparation procedure and
	surface imperfections /defects that can be removed
	Surface imperfections /defects: rust, existing coatings, mill scale, dirt, oil,
	grease, paint coating defects (such as flaking/detachment, blistering,
	cracking/crocodiling, chalking, bubsing, cissing, wrinkling), other
	contaminants
	KB15. procedures for handling components with surface imperfections/defects that
	cannot be removed/repaired and how can they be minimized
	KB16. how to identify process faults (including pitting, erosion of substrate, ,
	perforation and incorrect color)
	KB17. types of abrasive, grit/sand, their characteristics and application, the
	importance of abrasive profile and abrasive cleanliness, company procedures
	for checking levels of contamination in abrasives
	KB18. grid size, mesh size and surface roughness
	KB19. the limitations of abrasive blasting, the requirements for the removal of
	particular types of coatings and hazards associated with the removal of particular coatings
	KB20. importance of tools and equipment being kept in a safe and usable condition
	KB21. importance of shutting down the machine and keeping it in secure mode
	KB22. hazards associated with carrying out the blasting process for surface preparation
	Hazards: sparks, dust/debris, hearing damage, hand/arm vibration, working at heights
	KB23. safe working practices and procedures to be observed when working with
	abrasive blasting surface preparation tools
	KB24. statutory requirements, risk assessment procedures and relevant







CSC/N0111 Pr	epare surface by shot blasting and/ or grit blasting
	requirements of health and safety at work regulations, the provision of and
	use of work equipment regulations, as applicable
	KB25. how to recognize and deal with emergencies and the procedures to be
	followed
	KB26. hazards associated with surface preparation using abrasive blasting and how
	they can be minimized
	KB27. reasons for carrying out surface preparation and the effects on the final
	finishing activities if preparations are not carried out correctly
	KB28. personal protective equipment (PPE) and clothing that must be worn during
	the blasting activity and from where can it be obtained
	KB29. importance of completing the production documentation throughout the
	surface preparation process
Skills (S)	
A. Core Skills/	Reading Skills
GenericSkills	The user/ individual on the job needs to know and understand how to:
	SA1. read and interpret information correctly from various job specification
	documents, health and safety instructions, memos, etc. applicable to the job
	in English and/or local language
	Writing Skills
	 The user/individual on the job needs to know and understand how to: SA2. fill up appropriate technical forms, process charts, activity logs as per organizational format in English and/or local language SA3. undertake numerical operations, and calculations/ formulae Numerical computations: addition, subtraction, multiplication, division, fractions and decimals, percentages and proportions, simple ratios and averages
	SA4. identify various basic, compound and solid shapes as per dimensions given
	Basic shapes: square, rectangle, triangle, circle
	Compound shapes: involving squares, rectangles, triangles, circles, semicircles,
	quadrants of a circle
	Solid shapes: cube, rectangular prism, cylinder
	SA5. use appropriate measuring techniques and units of measurement
	SA6. use appropriate units and number systems to express degree of accuracy
	Units and number systems representing degree of accuracy: decimals places,
	SA7. 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







CSC/N0111 Pre	pare surface by shot blasting and/ or grit blasting	
	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	
	SB2. organize and analyze information relevant to work	
	SB3. basic concepts of shop-floor work productivity including waste reduction,	
	efficient material usage and optimization of time	
	CustomerCentricity	
	The user/individual on the job needs to know and understand how to:	
	SB4. exercise restraint while expressing dissent and during conflict situations	
	SB5. avoid and manage distractions to be disciplined at work	
	SB6. manage own time for achieving better results	
	SB7. work in a team in order to achieve better results	
	SB8. identify and clarify work roles within a team	
	SB9. communicate and cooperate with others in the team for better results	
	SB10. seek assistance from fellow team members	
	Problem Solving	
	The user/individual on the job needs to know and understand how to:	
	SB11. identify problems with work planning, procedures, output and behavior and their implications	
	SB12. prioritize and plan for problem solving	
	SB13. communicate problems appropriately to others	
	SB14. identify sources of information and support for problem solving	
	SB15. seek assistance and support from other sources to solve problems	
	SB16. identify effective resolution techniques	
	SB17. select and apply resolution techniques	
	SB18. seek evidence for problem resolution	
	Analytical Thinking	
	The user/individual on the job needs to know and understand how to:	
	SB19. undertake and express new ideas and initiatives to others	
	SB20. modify work plan to overcome unforeseen difficulties or developments that	
	occur as work progresses	
	SB21. participate in improvement procedures including process, quality and	
	internal/external customer/supplier relationships	







CSC/N0111 Pro	epare surface by shot blasting and/ or grit blasting
	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









Prepare surface by shot blasting and/ or grit blasting CSC/N0111

NOS Version Control

NOS Code		CSC/N0111	
Credits	TBD	Version number	1.0
Industry	Capital Goods	Drafted on	24/04/2014
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	Machining	Next review date	24/11/2021

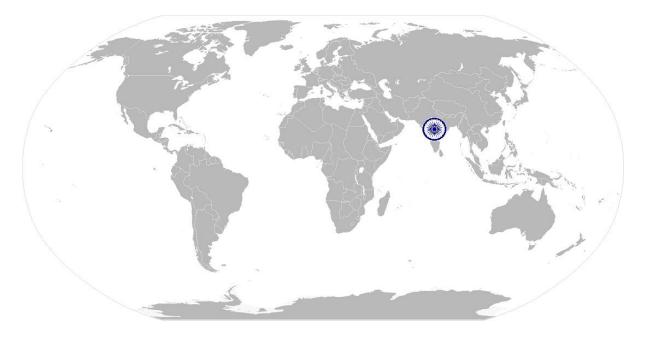






CSC/N1335 Use basic health and safety practices at the workplace

National Occupational Standard



Overview

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







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

Unit Code	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.	
Onit Title (Task) Description Scope Performance Criteri Element Health and safety	 This unit/task covers the following: Health and safety Fire safety Emergencies, rescue and first-aid procedure 	
Performance Criteri	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 asbestos 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 	

National Occupational Standard







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 ro
	Methods of accident prevention: training in health and safety procedures;
	using health and safety procedures; use of equipment and working practices
	(such as safe carrying procedures); safety notices, advice; instruction from
	colleagues and supervisors
	PC7. state location of general health and safety equipment in the workplace
	General health and safety equipment: fire extinguishers; first aid equipment
	safety instruments and clothing; safety installations (eg fire exits, exhaust fans)
	PC8. inspect for faults, set up and safely use steps and ladders in general use
	Ladder faults: corrosion of metal components, deterioration, splits and crac
	timber components, imbalance, loose rungs, missing/ unfixed nuts or bolts,
	etc.
	Ladders set up: firm/level base, clip/lash down, leaning at the correct angle,
	etc.
	PC9. work safely in and around trenches, elevated places and confined areas
	PC10. lift heavy objects safely using correct procedures
	PC11. apply good housekeeping practices at all times
	Good housekeeping practices: clean/tidy work areas, removal/disposal of
	waste products, protect surfaces
	PC12. identify common hazard signs displayed in various areas
	Various areas: on chemical containers; equipment; packages; inside building
	in open areas and public spaces, etc.
	PC13. retrieve and/or point out documents that refer to health and safety in the
	workplace
	Documents: fire notices, accident reports, safety instructions for equipment







CSC/N1335 Us	be basic health and safety practices at the workplace
	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 and first-aid procedures	 To be competent, the user/individual on the job must be able to: PC18. demonstrate how to free a person from electrocution PC19. administer appropriate first aid to from electrocution 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
	 PC20. complete a written accident/incident report of dictate a report to another person, and send report to person responsible Incident Report includes details of: name, date/time of incident, date/time of report, location, environment conditions, persons involved, sequence of events, injuries sustained, damage sustained, actions taken, witnesses, supervisor/manager notified PC27. demonstrate correct method to move injured people and others during an emergency







	se basic health and safety practices at the workplace		
Knowledge and Under	standing (K)		
A. Organizational Context	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		
(Knowledge of the	responsible for health and safety in a workplace		
company /	KA2. names and location of documents that refer to health and safety in the		
organization and	workplace		
its processes)			
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 prac		
	(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		
	KB12. precautionary activities to prevent the me accident		
Causes of fires: heating of metal; spontaneous ignition; sparking; electronic description; sparking; loose fires (smoking, welding, etc.); chemical fires; etc.			
			KB14. techniques of using the different fire extinguishers
			KB15. different methods of extinguishing fire







CSC/N1335 Us	e basic health and safety practices at the workplace		
	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		
GenericSkills	The user/ individual on the job needs to know and understand how to:		
	SA1. read and comprehend basic content to read labels, charts, signages		
	SA2. read and comprehend basic English to read manuals of operations		
	SA3. read an accident/incident report in local language or English		
	Writing Skills		
	The user/individual on the job needs to know and understand how to:		
	SA4. write an accident/incident report in local language or English		
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	SA5. question coworkers appropriately in order to clarify instructions and other		
	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		
	The user/individual on the job needs to know and understand how to:		







CSC/N1335	Use basic health and safety practices at the workplace
	SB3. remain congenial while discussing and debating issues with co-workers
	SB4. follow appropriate protocols for communication based on situation, hierarchy
	organizational culture and practice
	SB5. ask for, provide and receive required assistance where possible to ensure
	achievement of work related objectives
	SB6. thank coworkers for any assistance received
	SB7. offer appropriate respect based on mutuality and respect for fellow
	workmanship and authority
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB8. think through the problem, evaluate the possible solution(s) and suggest an
	optimum /best possible solution(s)
	SB9. identify immediate or temporary solutions to resolve delays
	SB10. identify sources of support that can be availed of for problem solving for
	various kind of problems
	SB11. seek appropriate assistance from other sources to resolve problems
	SB12. report problems that you cannot resolve to appropriate authority
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB13. identify cause and effect relations in their area of work
	SB14. use cause and effect relations to anticipate potential problems and their solution
	Critical Thinking
	NA







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

NOS Version Control

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NOS Code		CSC/N1335	
Credits	TBD	Version number	1.0
Industry	Capital Goods	Drafted on	24/04/2014
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	Machining	Next review date	24/11/2021



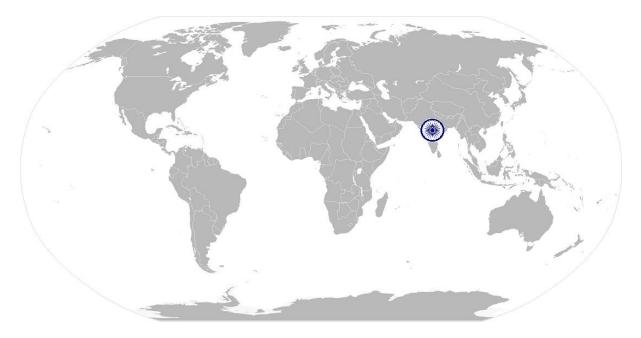




CSC/N1336

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







CSC/N1336	Work effectively with others
organization and	work area
its processes)	KA3. relevant people and their responsibilities within the work area
	KA4. escalation matrix and procedures for reporting work and employment related
	issues
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. various categories of people that one is required to communicate and co- ordinate with in the organization
	KB2. importance of effective communication in the workplace
	KB3. importance of teamwork in organizational and individual success
	KB4. various components of effective communication
	KB5. key elements of active listening
	KB6. value and importance of active listening and assertive communication
	KB7. barriers to effective communication
	KB8. importance of tone and pitch in effective communication
	KB9. importance of avoiding casual expletives and unpleasant terms while
	communicating professional circles
	KB10. how poor communication practices can disturb people, environment and
	cause problems for the employee, the employer and the customer
	KB11. importance of ethics for professional success
	KB12. importance of discipline for professional success
	KB13. what constitutes disciplined behavior for a working professional
	KB14. common reasons for interpersonal conflict
	KB15. importance of developing effective working relationships for professional
	success
	KB16. expressing and addressing grievances appropriately and effectively
	KB17. importance and ways of managing interpersonal conflict effectively
Skills (S)	
A. Core Skills/	ReadingSkills
Generic Skills	The user/ individual on the job needs to know and understand how to:
	SA1. read basic terms and terminologies to accurately interpret work related
	documents, labels, supervisor instructions in the local language
	SA2. read and interpret accurate information from various relevant work
	instructions and records
	Writing Skills
	The user/ individual on the job needs to know and understand how to:
	SA3. write clear and legible notes to self, colleagues and seniors to pass messages,
	keep records, prepare to-do lists, take down instructions
	SA4. write basic numbers, quantities and work related terminology for operational
	requirements in the local language



NOS
National Occupational Standards



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







CSC/N1336

Work effectively with others

NOS Version Control

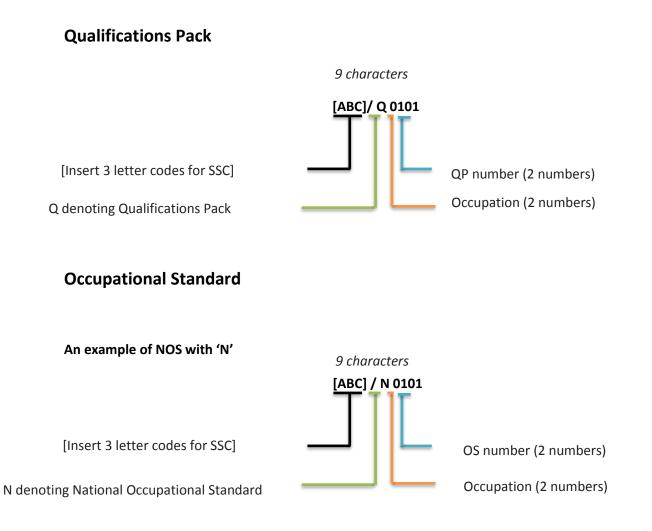
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Machine Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods	Last reviewed on 24/11/2017	*
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30	oods	pods





<u>Annexure</u>

Nomenclature for QP and NOS



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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 NOS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01





Criteria For Assessment Of Trainees

Job Role: Operator - Shot Blasting and Grit Blasting

Qualification Pack: CSC/Q0111

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/N0111 Prepare surface by shot blasting	PC1.comply with health and safety, environmental and other relevant regulations and guidelines at work and ensure process compliance		3	1	2
and/ or grit blasting	PC2.adhere to procedures or systems in place for risk assessment, occupational standards, personal protective equipment (PPE) and other relevant occupational safety regulations		4	1	3
	PC3.work following laid down procedures and instructions	100	3	1	2
	PC4.ensure that all tools, equipment, power tool cables, extension leads are in a safe and usable condition and are kept at secured location	-	2	0	2
	PC5.ensure that all measuring equipment are within calibration date and are approved for usage		2	0	2
	PC6.ensure work area is clean and safe from hazards before and after the job is completed	1	2	0	2





source PC8.read and establish job requirements from the job specification document accurately PC9.report and rectify incorrect and inconsistent information in job specification documents as per organization procedures PC10.prepare the work area for the shot blasting and/o grit blasting operations as per procedure PC11.remove paint and corrosion products from ferrous and non-ferrous surfaces using shot blasting and grit blasting PC12.obtain correct work-pieces/raw materials and abrasives/consumables as per job requirements PC13.identify the metals, metal alloys and non-metals and surface finish specifications accurately PC14.ensure selection of surface preparation method/technique as per the work requirements PC15.ensure availability appropriate tools and equipment per job requirements PC16.set up machines for carrying out blasting PC17.set work pieces as per job requirements using appropriate positioning and/or holding devices PC18.carry out the surface preparation process in accordance with standard operating procedures PC19.check the finish as per job specification PC20.check the surface to ensure completeness of work PC21.identify common surface imperfections and correct errors PC22.complete documentation post completion of work, as per procedure PC23.keep finished components as well as raw material as per organizational procedure established PC24.produce components as per standards applicable to the process and in line with production targets PC25.report conditions and seek appropriate assistance in a timely manner to address risk of failure to comply with necessary targets and specifications PC26.deal with finished components as per organizational guidelines PC27.complete documentation during and post operations as per organizational procedures PC28.return all tools and equipment to the correct		
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	PC29.leave the work area in a safe and tidy condition on completion of job activities		2	0	2
		Total	100	21	79
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	100	5	2	3
	PC9.work safely in and around trenches, elevated places and confined areas		5	2	3
	PC10.lift heavy objects safely using correct procedures		4	2	2
	PC11.apply good housekeeping practices at all times		5	2	3
	PC12.identify common hazard signs displayed in various areas		3	1	2
	PC13.retrieve and/or point out documents that refer to health and safety in the workplace		4	1	3
	PC14.use the various appropriate fire extinguishers on different types of fires correctly		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
	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.accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required		10	3	7
	PC2.accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt	100	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