



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR CAPITAL GOODS INDUSTRY



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Introduction

Qualifications Pack: Grinder – Hand and hand held Power Tools

SECTOR: CAPITAL GOODS

SUB-SECTOR:

- 1. Machine Tools
- 2. Dies, Moulds and Press Tools
- 3. Process Plant Machinery
- 4. Plastics Manufacturing Machinery
- 5. Textile Manufacturing Machinery
- 6. Electrical and Power Machinery
- 7. Light Engineering Goods

OCCUPATION: Fitting and Assembly

REFERENCE ID: CSC/ Q 0302

ALIGNED TO: NCO-2004/7224.5

Grinder – Hand Tools and/or Hand-held Power Tools: Perform surface grinding using hand tools and/or hand-held power tools on a variety of ferrous and non-ferrous materials and components.

Brief Job Description: It involves selecting appropriate grinding equipment, tools and methods to suit work requirements, preparing the tools, applying grinding procedures for carrying out the grinding operations, inspecting the components after grinding operations and correcting faults.

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

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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Qualifications Pack Code	CSC/ Q 0302		
Job Role	Grinder – Hand Tools and/or Hand –held Power Tools		
Credits (NSQF)	TBD	Version number	1.0
Sector	CAPITAL GOODS	Drafted on	10/04/14
Sub-sector	 Machine Tools Dies, Moulds And Press Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods 	Last reviewed on	18/03/15
Occupation	FITTING AND ASSEMBLY	Next review date	30/08/16
NSQC Clearance on	22/04/2015		





Job Role	Grinder – Hand Tools and/or Hand –held Power Tools
Role Description	Perform surface grinding using hand tools and/or hand-held power tools on a variety of ferrous and non-ferrous materials and components.
NSQF level Minimum Educational Qualifications Maximum Educational Qualifications	2 8 th Standard N.A.
Training (Suggested but not mandatory) Minimum Job Entry Age	No Previous Training Required 18 Years Old
Experience	No Previous Experience Required
Applicable National Occupational Standards (NOS)	 Compulsory: 1. <u>CSC/ N 0302 (Grind surface using hand and hand-held power tools)</u> 2. <u>CSC/ N 1335 (Use basic health and safety practices at the workplace)</u> 3. <u>CSC/ N 1336 (Work effectively with others)</u> Optional: N.A.
Performance Criteria	As described in the relevant OS units





Keywords /Terms	Description
Core Skills/Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the NOS, these include communication related skills that are applicable to most job roles.
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of NOS.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
Organisational Context	Organisational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
Qualifications Pack(QP)	Qualifications Pack comprises the set of NOS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
Scope	Scope is the 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 the quality of performance required.
Sector	Sector is a conglomeration of different business operations having similar businesses 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.
Sub-functions	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Unit Code	Unit Code is a unique identifier for a NOS unit, which can be denoted with an 'N'
Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do.
Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry.

Definitions



Qualifications Pack For Grinder – Hand and hand held power tools



Acronyms

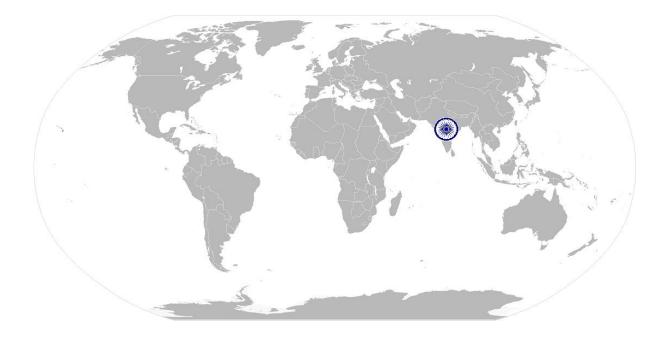
Keywords /Terms	Description
CNC	Computer Numerically Controlled
VMC	Vertical Machining Center
EDM	Electro Discharge Machine
CAD	Computer Aided Design







National Occupational Standard



Overview

This unit covers competencies required for grinding surface using hand tools and/or handheld power tools on a variety of ferrous and non-ferrous materials and components.



Vational Occupational Standard





CSC/ N 0302: Grind surface using hand and hand-held power tools

Unit Code	CSC/ N 0302		
Unit Title (Task)	Grind surface using hand and hand-held power tools		
Description	This unit covers competencies required for grinding surface using hand tools and hand-held power tools on a variety of ferrous and non-ferrous objects.		
	This involves selecting appropriate grinding equipment, tools and methods to suit work requirements; It also includes preparing the tools, applying grinding procedures with these tools for carrying out the grinding operations.		
	The candidate will be expected to perform as per instructions given, work under supervision and take some responsibility for own actions and for the quality and accuracy of the work produced.		
Scope	This unit/task covers the following: Working safely 		
	 Prepare for grinding operations 		
	Perform grinding operations		
	 Different kinds of manually operated grinders are: angle grinders bench grinders straight grinder rotary die grinders disc grinder electronic grinder/ electric or pneumatic/hydraulic grinders pedestal grinders cylindrical grinders 		
Performance Criteria(F	PC) w.r.t. the Scope		
Element	Performance Criteria		
Working safely	The user / individual on the job should 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 work area is clean and safe from hazards before and after the job is

completed







Prepare for grinding	DCC shtein ich anorification from a valid and annround as una
operations	PC6. obtain job specification from a valid and approved source
operations	Valid sources: instructions from supervisor
	PC7. ensure that all measuring equipment are within calibration date and are
	approved for usage
	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
	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 grinding 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
	PC13. Interpret surface finish specifications accurately
	PC14. select grinding method/technique as per the work requirements
	PC15. obtain appropriate tools and equipment per job requirements
Perform grinding	PC16. set work pieces as per job requirements using appropriate positioning and/or
operations	holding devices
	PC17. measure and mark equipment, objects, or parts to ensure grinding standards
	are met
	PC18. trim or scrape objects or parts, using chisels, scrapers, and other hand or
	power tools and equipment
	Power tools : electric, pneumatic, liquid fuel, hydraulic
	PC19. select stones, wheels, files or other abrasives, according to materials, sizes
	and shapes of work-pieces, amount of stock to be removed, finishes specified,
	and steps in finishing and grinding processes
	Kinds of wheel: cut-off discs (diamond blade), abrasive grinding discs,
	grinding stones, wire brush wheels
	PC20. move controls to adjust, start, or stop equipment during grinding process
	PC21. load and adjust work-pieces onto equipment or work tables
	PC22. carry out the grinding process using and/or tools or hand-held power tools in
	accordance with standard operating procedures
	PC23. finish job surface to specification according to requirement
	PC24. perform wheel dressing using diamond cutter
	PC25. check the surface finish of the object on which grinding is done to ensure
	completeness of work
	PC26. identify common surface imperfections and correct errors
	PC27. ensure that the work-piece achieves the required characteristics and meets
	the finishing specification
	Finishing parameters: texture, roughness







CSC/ IN 0502: GFI	ind surface using nand and nand-neid power tools
	PC28. secure tools and equipment in a safe condition on completion of the processing activities
	PC29. determine the kind of tools and equipment needed to do a job or repair the tools
	PC30. perform routine maintenance on equipment and determining when and what kind of maintenance is needed
	PC31. complete documentation post completion of work, as per procedure
	Documentation during and post operations : job card, progress records,
	incident reports
	PC32. refer unresolved job related problems to appropriate personnel for support
	PC33. monitor the problem and keep the supervisor informed about progress or any
	delays in resolving the problem
Knowledge and Underst	
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 KA2. relevant health and safety requirements applicable in the work place
company /	KA2. relevant health and safety requirements applicable in the work placeKA3. own job role and responsibilities and sources for information pertaining to
organization and	employment terms, entitlements, job role and responsibilities
its processes)	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
B. Technical	employment and work The user/individual on the job needs to know and understand:
Knowledge	KB1. kinds of common ferrous and non-ferrous metals
Kilowicuge	Metals: ferrous metals: e.g. carbon steels, stainless steels, cast iron, tool
	steel, hard metals, etc.; non-ferrous metals: e.g. bronze, bronze alloys, copper
	and copper alloys, etc.
	KB2. hand tool (powered and unpowered) grinding methods & techniques and
	terminology used in grinding procedures; which tools to use and when

KB2.	hand tool (powered and unpowered) grinding methods & techniques and terminology used in grinding procedures; which tools to use and when
КВЗ.	hand and held-held power tools and equipment to be used in grinding for
	different types of material
	Power tools: electric, pneumatic, liquid fuel, hydraulic
KB4.	application of hand and powered tools and how to ensure that powered tools
	are set up, used and closed down safely
KB5.	procedures, tools and techniques required to set operational performance
	parameters
L K D C	







	KB7. correct procedures of tools and equipment usage for the grinding operationsKB8. effect of different types and grades of grinding achievable by various tools to
	achieve required surface finish
	KB9. importance of following specified grinding sequence and procedures
	KB10. types and sources of appropriate job specifications
	Valid sources: instructions from supervisor
	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 tools and mechanisms
	KB13. various types of substrate that may require preparing and the types of tools
	and preparation methods that may be used on them
	KB14. why different types of substrate require different preparation techniques to
	be used and the damage that may result from using inappropriate tools and techniques
	KB15. how to identify grinding process faults, methods and techniques to check for
	common surface imperfections/defects and conformance to specifications
	KB16. surface imperfections/defects that can be removed/repaired
	KB17. procedures for handling components with surface imperfections/defects that
	cannot be removed/repaired and how can they be minimized
	KB18. importance of tools and equipment being kept in a safe and usable condition
	KB19. hazards associated with carrying out the grinding process
	KB20. personal protective equipment (PPE) and clothing that must be worn during
	the grinding activity and from where can it be obtained
	KB21. importance of the maintenance of a register of power tools, and the need to
	check tools against certification
	KB22. importance of completing the production documentation throughout the
	grinding process
	Documentation during and post operations: job card, progress records,
	incident reports
Skills (S) [Optional]	
A. Core Skills/	Communication (Reading, Writing, Listening and Speaking)
Generic Skills	The user/ individual on the job needs to know and understand how to:
Generic Skills	SA1. read and interpret information correctly from various job specification
	documents, manuals, health and safety instructions, memos, etc. applicable to
	the job in English and/or local language
	SA2. fill up appropriate technical forms, process charts, activity logs as per
	organizational format in English and/or local language
	SA3. convey and share technical information clearly using appropriate language
	SA3. check and clarify task-related information
	SA5. liaise with appropriate authorities using correct protocol
	SA6. communicate with people in respectful form and manner in line with
	organizational protocol
	Numerical and computational skills
	The user/individual on the job needs to know and understand how to:
	SA7. undertake numerical operations, and calculations/ formulae
	Numerical computations: addition, subtraction, multiplication, division,
	Numerical computations: addition, subtraction, multiplication, division,







CSC/ N 0302:	Grind surface using hand and hand-held power tools
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	fractions and decimals, percentages and proportions, simple ratios and
	averages
	Algebraic expressions: represent numerical quantities using symbols, apply
	laws of precedence in the use of precedence (BODMAS)
	SA8. identify various basic, compound and solid shapes as per dimensions given
	Basic shapes: square, rectangle, triangle, circle
	Compound shapes: involving squares, rectangles, triangles, circles, semi-
	circles, quadrants of a circle
	Solid shapes: cube, rectangular prism, cylinder
	SA9. use appropriate measuring techniques and units of measurement
	SA10. 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
B. Professional Skills	Critical Thinking
D. Trofessional Skins	
	The user/individual on the job needs to know and understand how to:
	SA11. participate in on-the-job and other learning, training and development
	interventions and assessments
	SA12. clarify task related information with appropriate personnel or technical
	adviser
	SA13. seek to improve and modify own work practices
	SA14. maintain current knowledge of application standards, legislation, codes of
	practice and product/process developments
	Problem Solving and Decision Making
	The user/individual on the job needs to know and understand how to:
	SB1. identify problems with work planning, procedures, output and behavior and
	their implications
	SB2. prioritize and plan for problem solving
	SB3. communicate problems appropriately to others
	SB4. identify sources of information and support for problem solving
	SB5. seek assistance and support from other sources to solve problems
	SB6. identify effective resolution techniques
	SB7. select and apply resolution techniques
	SB8. seek evidence for problem resolution
	Plan and Organize
	The user/individual on the job needs to know and understand how to:
	SB9. plan, prioritize and sequence work operations as per job requirements
	SB10. organize and analyze information relevant to work
	SB11. basic concepts of shop-floor work productivity including waste reduction,
	efficient material usage and optimization of time
	Analytical Thinking
	The user/individual on the job needs to know and understand how to:
	SB12. undertake and express new ideas and initiatives to others
	SB13. modify work plan to overcome unforeseen difficulties or developments that
	occur as work progresses
	SB14. participate in improvement procedures including process, quality and
	internal/external customer/supplier relationships







SB15. one's competencies in new and different situations and contexts to achieve more
Customer Centricity
The user/individual on the job needs to know and understand how to:
SB16. exercise restraint while expressing dissent and during conflict situations
SB17. avoid and manage distractions to be disciplined at work
SB18. manage own time for achieving better results
Teamwork
The user/individual on the job needs to know and understand how to:
SB19. work in a team in order to achieve better results
SB20. identify and clarify work roles within a team
SB21. communicate and cooperate with others in the team for better results
SB22. seek assistance from fellow team members









NOS Version Control

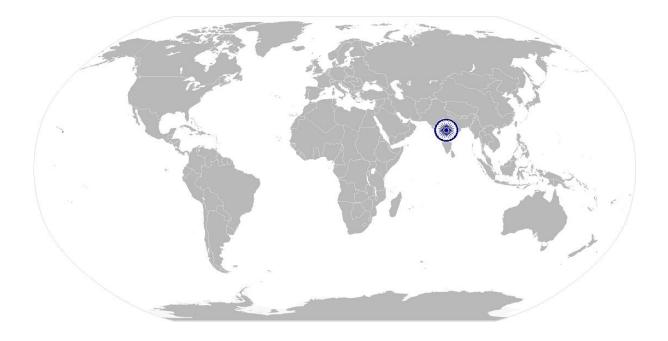
NOS Code		CSC/ N 0302	
Credits (NSQF)		Version number	1.0
Industry	CAPITAL GOODS	Drafted on	10/04/14
Industry Sub-sector	 Machine Tools Dies, Moulds And Press Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods 	Last reviewed on	18/03/15
Occupation	Fitting and Assembly	Next review date	30/08/16
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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.







Unit Code	CSC / N 1335
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.
	It includes understanding of risks and hazards in the workplace, along with common techniques to minimize risk, deal with accidents, emergencies, etc.
	It covers knowledge of fire safety, common first aid applications, safe practices and emergency procedures.
Scope	This unit/task covers the following:
	Health and safetyFire safety
	 Emergencies, rescue and first-aid procedures

Performance Criteria(PC) w.r.t. the Scope

Element	Performance Criteria
Health and safety	The user/individual on the job should be able to:
ficality and survey	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 hazards (power supply and points, loose and naked cables
	and wires, electrical machines and appliances, etc.)







		Possible causes of risk and accident: physical actions; reading;
		listening to and giving instructions; inattention; sickness and
		incapacity (such as drunkenness); health hazards (such as untreated
		injuries and contagious illness)
	PC5.	carry out safe working practices while dealing with hazards to ensure
	105.	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,
	- Tille	fall arrestors, etc.
	PC6.	state methods of accident prevention in the work environment of the
9		job role
	The fi	Methods of accident prevention: training in health and safety
		procedures; using health and safety procedures; use of equipment
2	a distance	and working practices (such as saferrying procedures); safety
	DCZ	notices, advice; instruction from colleagues and supervisors
	PC7.	state location of general health and safety equipment in the
	13	workplace
)~S	General health and safety equipment: fire extinguishers; first aid
		equipment; safety instruments and clothing; safety installations(eg
	36	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	· • •
File salety	The user/individual on the job should 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	The user/individual on the job should be able to:
and first-aid	PC18. demonstrate how to free a person from electrocution
procedures	 PC19. administer appropriate first aid to victims where required eg. in case of bleeding, burns, choking, electric shock, poisoning etc. PC20. demonstrate basic techniques of bandaging PC21. respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments PC22. perform and organize loss minimization or rescue activity during an accident in real or simulated environments PC23. administer first aid to victims in case of a heart attack or cardiac arrest due to electric shock, before the arrival of emergency services in real or simulated cases
	PC24. demonstrate the artificial respiration and the CPR Process
	PC25. participate in emergency procedures Emergency procedures : raising alarm, safe/efficient, evacuation, correct means of escape, correct assembly point, roll call, correct return to work
	PC26. complete a written accident/incident report or dictate a report to another person, and send report to person responsible Incident Report includes details of : name, date/time of incident, date/time of report, location, environment conditions, persons involved, sequence of events, injuries sustained, damage sustained,
	actions taken, witnesses, supervisor/manager notified PC27. demonstrate correct method to move injured people and others during an emergency
Knowledge and Under	standing (K)







A. Organizational	The user/individual on the job needs to know and understand:	
Context	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.	
	KA2. names and location of documents that refer to health and safety in	
company /	the workplace.	
organization and		
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 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 exposite 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	
	KB15. different methods of extinguishing fire KB16. different materials used for extinguishing fire	
	Materials: sand, water, foam, CO2, dry powder	
	KB17. rescue techniques applied during a fire hazard	
	KB17. rescue techniques applied during a me nazard KB18. various types of safety signs and what they mean	
	Refer various types of surety signs and what they mean	







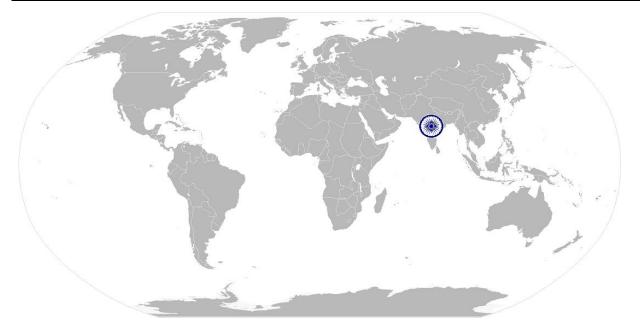
Skills (S) [Optional]	 KB19. appropriate basic first aid treatment relevant to the condition eg. shock, electrical shock, bleeding, breaks to bones, minor burns, resuscitation, poisoning, eye injuries KB20. content of written accident report KB21. potential injuries and ill health associated with incorrect 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) [Optional]	
A. Core Skills/	Reading and Writing Skills
Generic Skills	The user/individual on the job needs to know and understand how to: SA1. read and comprehend basic content to read labels, charts, signages SA2. read and comprehend basic English to read manuals of operations SA3. read and 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: SA4. question coworkers appropriately in order to clarify instructions and other issues SA5. give clear instructions to coworkers; subordinates others Decision Making
	The user/individual on the job needs to know and understand how to: SA6. 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
B. Professional Skills	Plan and Organize
	 The user/individual on the job needs to know and understand how to: SB1. plan and organize their own work schedule, work area, tools, equipment and materials to maintain decorum and for improved productivity Working with others
	 The user/individual on the job needs to know and understand how to: SB2. remain congenial while discussing and debating issues with co-workers SB3. follow appropriate protocols for communication based on situation, hierarchy, organizational culture and practice SB4. ask for, provide and receive required assistance where possible to ensure achievement of work related objectives SB5. thank coworkers for any assistance received SB6. offer appropriate respect based on mutuality and respect for fellow
	see. oner appropriate respect based on mutuality and respect for fellow
	worksmanship and authority







 The user/individual on the job needs to know and understand how to: SB7. think through the problem, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) SB8. identify immediate or temporary solutions to resolve delays SB9. identify sources of support that can be availed of for problem solving for various kind of problems SB10. seek appropriate assistance from other sources to resolve problems SB11. report problems that you cannot resolve to appropriate authority
Analytical Thinking
The user/individual on the job needs to know and understand how to: SB12. identify cause and effect relations in their area of work SB13. use cause and effect relations to anticipate potential problems and their solution









NOS Version Control

NOS Code	CS	CSC / N 1335	
Credits (NSQF)	TBD	Version number	1.0
Industry	Capital Goods	Drafted on	10/04/14
Industry Sub-sector	 Machine Tools Dies, Moulds And Press Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery. Process Plant Machinery Electrical and Power Generation Machinery Light Engineering Goods 	Last reviewed on	18/03/15
Occupation	Fitting and Assembly	Next review date	30/08/16



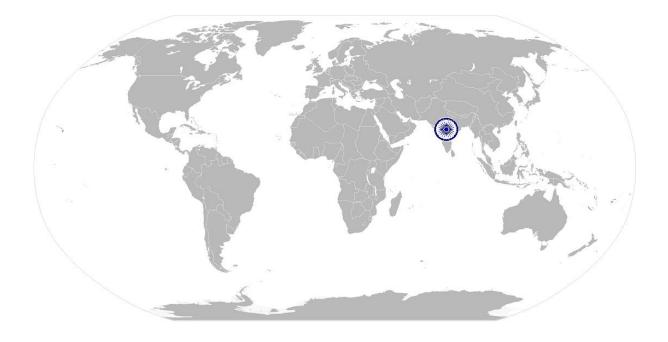




CSC/ N 1336:

Work effectively with others

National Occupational Standard



Overview

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







Work effectively with others

CSC/ N 1336:	Work effectively with others
Unit Code	CSC / N 1336
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, handling conflict and grievances.
Scope	This unit/task covers the following:
	Working with others
Performance Criteria (I	PC) w.r.t. the Scope
Element	Performance Criteria
Working with others	 The user/individual on the job should 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
Knowledge and Unders	to resolve them and avoid conflict
A. Organizational Context (Knowledge of the	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
company /	KA2. reporting structure, inter-dependent functions, lines and procedures in the work area
organization and its processes)	 KA3. relevant people and their responsibilities within the work area KA4. escalation matrix and procedures for reporting work and employment related issues







National Occupational Standards

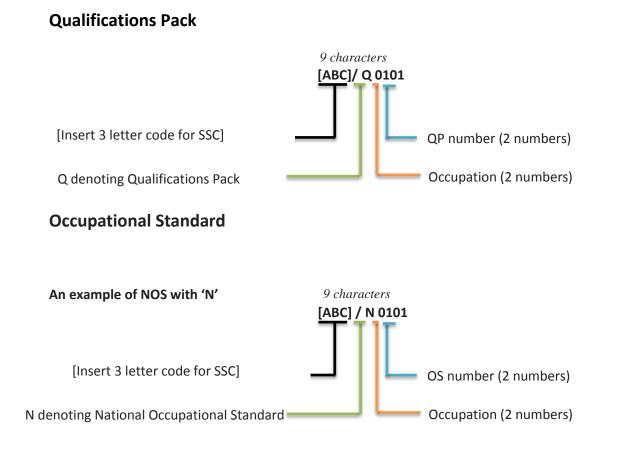
CSC/ N 1336:	Work effectively with others
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. various categories of people that one is required to communicate and co-
	ordinate with in the organization
	KB2. importance of effective communication in the workplace
	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) [Optional]	
·	





<u>Annexure</u>

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
Plastics 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 Grinder – Hand and hand held Power Tools

Qualification Pack CSC/ Q 0302

Sector Skill Council Capital Goods Sector Skills Council

Guidelines for Assessment:

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

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

3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)

4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on this criteria

5. To pass the Qualification Pack , every trainee should score a minimum of 70% in every NOS

6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.

Assessment outcomes	Assessment Criteria	Total Marks	Out of	Theory	Practical Skill
CSC/ N 0302: Grind	PC1. comply with health and		3	1	2
surface using hand	safety, environmental and other				
and /or hand-held	relevant regulations and guidelines				
power tools	at work and ensure process				
	compliance				
	PC2. adhere to procedures or		4	1	3
	systems in place for risk				
	assessment, occupational				
	standards, personal protective				
	equipment (PPE) and other				
	relevant occupational safety				
	regulations				
	PC3. work following laid down		3	1	2
	procedures and instructions				
	PC4. ensure that all tools,		2	0	2
	equipment, power tool cables,				
	extension leads are in a safe and				
	usable condition and are kept at				
	secured location				
	PC5. ensure work area is clean		2	0	2
	and safe from hazards before and				
	after the job is completed				
	PC6. obtain job specification from		2	0	2
	a valid and approved source				



Qualifications Pack For Grinder – Hand and Hand held Power Tool



Qualifications Pack For Grinder – Hand c	and Hand held Po	wer Tool		
PC7. ensure that all measuring		2	0	2
equipment are within calibration		2	U	2
date and are approved for usage				
PC8. read and establish job	-	2	0	2
requirements from the job		2	0	2
specification document accurately				
PC9. report and rectify incorrect	-	3	1	2
and inconsistent information in job		J	T	2
specification documents as per				
organization procedures				
PC10. prepare the work area for	-	3	1	2
the grinding operations as per		J	T	2
procedure				
PC11. obtain correct work-	-	3	1	2
pieces/raw materials and		J	T	2
consumables as per job				
requirements				
PC12. identify the metals, metal	-	2	0	2
alloys and non-metals accurately		2	0	2
PC13. interpret surface finish	-	2	0	2
specifications accurately		2	0	2
PC14. select grinding	-	4	1	3
method/technique as per the work		4	T	Э
requirements				
PC15. obtain appropriate tools		3	1	2
and equipment per job		Э	T	Z
requirements				
PC16. set work pieces as per job		4	1	3
requirements using appropriate		4	T	J
positioning and/or holding devices				
PC17. measure and mark		4	1	3
equipment, objects, or parts to		4	T	J
ensure grinding standards are met				
PC18. trim or scrape objects or		3	0	3
parts, using chisels, scrapers, and		5	0	5
other hand or power tools and				
equipment				
	-	4	1	3
		4	T	Э
or other abrasives, according to materials, sizes and shapes of				
work-pieces, amount of stock to be				
removed, finishes specified, and				
steps in finishing and grinding				
processes		2	0	2
PC20. move controls to adjust, start, or stop equipment during		۷	U	۷
grinding process				
PC21. load and adjust work-		3	0	3
r CZI. IVau allu aujust WUIK-		С	0	5



Qualifications Pack For Grinder – Hand and Hand held Power Toc



	pieces onto equipment or work				
	tables				
	PC22. carry out the grinding		5	1	4
	process using and/or tools or hand-				
	held power tools in accordance				
	with standard operating				
	procedures	-		1	4
	PC23. finish job surface to specification according to		5	1	4
	requirement				
	PC24. perform wheel dressing		4	0	4
	using diamond cutter		4	0	4
	PC25. check the surface finish of	-	3	0	3
	the object on which grinding is		5	0	J
	done to ensure completeness of				
	work				
	PC26. identify common surface		3	0	3
	imperfections and correct errors			-	-
	PC27. ensure that the work-piece	1	3	1	2
	achieves the required				
	characteristics and meets the				
	finishing specification				
	PC28. secure tools and		2	0	2
	equipment in a safe condition on				
	completion of the processing				
	activities				
	PC29. determine the kind of tools		3	0	3
	and equipment needed to do a job				
	or repair the tools				
	PC30. perform routine		4	0	4
	maintenance on equipment and				
	determining when and what kind of				
	maintenance is needed	-			
	PC31. complete documentation		3	1	2
	post completion of work, as per				
	procedure	-			
	PC32. refer unresolved job		2	0	2
	related problems to appropriate				
	personnel for support		2	0	2
	PC33. monitor the problem and		3	0	3
	keep the supervisor informed about progress or any delays in				
	resolving the problem 0 3				
	resolving the problem 0.5	Total	100	15	85
	DC1 use protective				
CSC/ N 1335: (Use basic health and	PC1. use protective	100	5	2	3
	clothing/equipment for specific tasks and work conditions				
safety practices at	Lasks and work conditions				



Qualifications Pack For Grinder – Hand and Hand held Power To



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PC8.work safely in and around trenches, elevated places and confined areas523PC9.lift heavy objects safely using correct procedures523PC10.apply good housekeeping practices at all times523PC11.identify common hazard signs displayed in various areas523PC12.retrieve and/or point out documents that refer to health and safety in the workplace312PC13.use the various appropriate fire extinguishers on different types of fires correctly413PC14.demonstrate rescue techniques applied during fire hazard312PC15.demonstrate good housekeeping in order to prevent fire hazards312PC17.demonstrate the correct use of a fire extinguisher413PC17.demonstrate how to free a person from electrocution413		and safely use steps and ladders in			
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practices at all timesPC11. identify common hazard signs displayed in various areas523PC12. retrieve and/or point out documents that refer to health and safety in the workplace312PC13. use the various appropriate fire extinguishers on different types of fires correctly413PC14. demonstrate rescue techniques applied during fire hazard413PC15. demonstrate good housekeeping in order to prevent fire hazards312PC16. demonstrate the correct use of a fire extinguisher413PC17. demonstrate how to free a person from electrocution413		using correct procedures			
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signs displayed in various areas312PC12. retrieve and/or point out documents that refer to health and safety in the workplace312PC13. use the various appropriate fire extinguishers on different types of fires correctly413PC14. demonstrate rescue techniques applied during fire hazard413PC15. demonstrate good housekeeping in order to prevent fire hazards312PC16. demonstrate the correct use of a fire extinguisher312PC17. demonstrate how to free a person from electrocution413		practices at all times			
PC12. retrieve and/or point out documents that refer to health and safety in the workplace312PC13. use the various appropriate fire extinguishers on different types of fires correctly413PC14. demonstrate rescue techniques applied during fire hazard413PC15. demonstrate good housekeeping in order to prevent fire hazards312PC16. demonstrate the correct use of a fire extinguisher PC17. demonstrate how to free a person from electrocution413		PC11. identify common hazard	5	2	3
documents that refer to health and safety in the workplace-PC13. use the various appropriate fire extinguishers on different types of fires correctly41PC14. demonstrate rescue techniques applied during fire hazard41PC15. demonstrate good housekeeping in order to prevent fire hazards31PC16. demonstrate the correct use of a fire extinguisher41PC17. demonstrate how to free a person from electrocution41		signs displayed in various areas			
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PC13. use the various appropriate fire extinguishers on different types of fires correctly413PC14. demonstrate rescue techniques applied during fire hazard413PC15. demonstrate good housekeeping in order to prevent fire hazards312PC16. demonstrate the correct use of a fire extinguisher413PC17. demonstrate how to free a person from electrocution413		documents that refer to health and			
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PC14. demonstrate rescue techniques applied during fire hazard413PC15. demonstrate good housekeeping in order to prevent fire hazards312PC16. demonstrate the correct use of a fire extinguisher413PC17. demonstrate how to free a person from electrocution413		fire extinguishers on different types			
techniques applied during fire hazardImage: Constraint of the sector of		of fires correctly			
hazardImage: Second		PC14. demonstrate rescue	4	1	3
PC15. demonstrate good housekeeping in order to prevent fire hazards312PC16. demonstrate the correct use of a fire extinguisher413PC17. demonstrate how to free a person from electrocution413		techniques applied during fire			
housekeeping in order to prevent fire hazards413PC16. demonstrate the correct use of a fire extinguisher413PC17. demonstrate how to free a person from electrocution413		hazard			
fire hazards41PC16. demonstrate the correct use of a fire extinguisher41PC17. demonstrate how to free a person from electrocution41		PC15. demonstrate good	3	1	2
PC16. demonstrate the correct use of a fire extinguisher413PC17. demonstrate how to free a person from electrocution413					
use of a fire extinguisher41PC17. demonstrate how to free a person from electrocution41		fire hazards			
PC17. demonstrate how to free a person from electrocution413		PC16. demonstrate the correct	4	1	3
person from electrocution		use of a fire extinguisher			
		PC17. demonstrate how to free a	4	1	3
PC18. administer appropriate first 4 1 3		person from electrocution			
		PC18. administer appropriate first	4	1	3
aid to victims where required eg. in		aid to victims where required eg. in			



Qualifications Pack For Grinder – Hand and Hand held Power Tools



	case of bleeding, burns, choking, electric shock, poisoning etc.				
	PC19. demonstrate basic techniques of bandaging		3	1	2
	PC20. respond promptly and appropriately to an accident situation or medical emergency in		4	1	3
	real or simulated environments PC21. perform and organize loss minimization or rescue activity during an accident in real or		3	1	2
	simulated environments PC22. 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
	PC23. demonstrate the artificial respiration and the CPR Process		3	1	2
	PC24. participate in emergency procedures		3	2	1
	PC25. complete a written accident/incident report or dictate a report to another person, and send report to person responsible		4	1	3
	PC26. demonstrate correct method to move injured people and others during an emergency		4	1	3
		Total	100	36	64
CSC/ N 1336: (Work effectively with others)	PC1. accurately receive information and instructions from the supervisor and fellow workers, getting clarification where required	100	10	3	7
	PC2. accurately pass on information to authorized persons who require it and within agreed timescale and confirm its receipt		10	3	7
	PC3. give information to others clearly, at a pace and in a manner that helps them to understand		10	3	7
	PC4. display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible		10	3	7
	PC5. consult with and assist others to maximize effectiveness and efficiency in carrying out tasks		10	3	7
	PC6. display appropriate		10	3	7



Qualifications Pack For Grinder – Hand and Hand held Power Tools



	Total	100	30	70
as per procedure to resolve them and avoid conflict				
problems to appropriate authority				
PC10. escalate grievances and		10	3	7
and disciplined behaviors at the workplace				
PC9. demonstrate responsible		10	3	7
professionalism				
and language to convey politeness, assertiveness, care and				
PC8. use appropriate tone, pitch		10	3	7
work				
PC7. display active listening skills while interacting with others at		10	3	7
communication etiquette while working				
communication atiquatta while				