





QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR CAPITAL GOODS INDUSTRY

What are Occupational Standards(OS)?

- Solution 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- Painting Technician (Spray Painting)

4. Process Plant Machinery

6. Light Engineering Goods

5. Electrical and Power Machinery

SECTOR/S: CAPITAL GOODS

SUB-SECTOR:

- 1. Machine Tools
- 2. Plastics Manufacturing Machinery
- 3. Textile Manufacturing Machinery
- **OCCUPATION:** Coating and Painting

REFERENCE ID: CSC/Q0702

ALIGNED TO: NCO-2004/NIL

Brief Job Description: It involves all necessary preparations to the base materials such as cleaning, degreasing, mechanical preparations, masking and other appropriate treatments, assessing the component, pre-treating, applying coatings by using manual spray guns, spray booths, drying and curing.

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

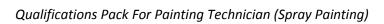








Qualifications Pack Code	C	CSC/Q0702	
Job Role	_	nnician (Spray Painting for National Scenarios	
Credits	TBD	Version number	1.0
Sector	Capital Goods	Drafted on	10/04/2014
Sub-sector	 Machine Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods 	Last reviewed on	24/11/2017
Occupation	Coating and Painting	Next review date	24/11/2021
NSQC Clearance on	1	19/05/2015	









Job Role	Painting Technician (Spray Painting)	
Role Description	Finishes the material by applying industrial paints/ liquid coatings to various substrates using spray methods, in accordance with approved procedures.	
NSQF level	2	
Minimum Educational Qualifications	10 th Standard pass, preferably	
Maximum Educational Qualifications	Not Applicable	
Prerequisite License or Training	No Previous Training Required	
Minimum Job Entry Age	18 Years	
Experience	3 months (preferably 6 months) in Painting	
Applicable National Occupational Standards (NOS)	Compulsory: 1. CSC/N0702 Perform finishing of materials by applying paints/liquid coatings by spray methods 2. CSC/N1335 Use basic health and safety practices at the workplace 3. CSC/N1336 Work effectively with others	
Performance Criteria	As described in the relevant OS units	







Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Jobrole	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
OccupationalStandards (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.
PerformanceCriteria	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.
QualificationsPack(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.
TechnicalKnowledge	Technical knowledge is the specific knowledge needed to accomplish



Qualifications Pack For Painting Technician (Spray Painting)





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

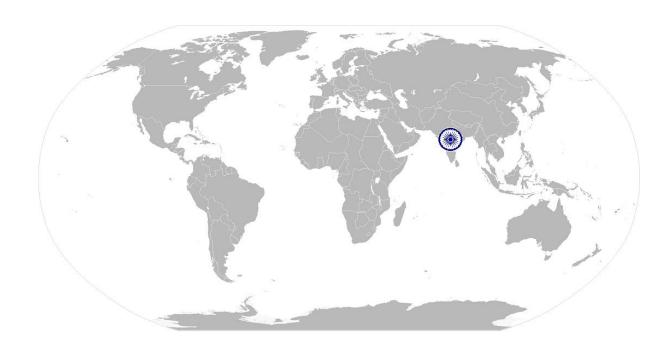








National Occupational Standard



Overview

This unit covers competencies required for finishing the material by applying industrial paints/liquid coatings to various substrates using spray methods, in accordance with approved procedures.









Unit Code	CCC/NOZO2
Unit Code	CSC/N0702
Unit Title (Task)	Perform finishing of materials by applying paints/liquid coatings by spray methods
Description	This unit covers competencies required for finishing the material by applying industrial paints/ liquid coatings to various substrates using spray methods, in accordance with approved procedures. The candidate will be expected to perform as per instructions given, demonstrate safeworking practices, take responsibility for own actions and for the quality and accuracyof the work produced.
Scope	 This unit/task covers the following: Work safely Prepare for finishing product with spray painting Finish the product with spray painting Handle the unresolved problems
Performance Criteria(P	
Element	Performance Criteria
Work safely	To be competent, the user/individual on the job must be able to: PC1. comply with health and safety, environmental and other relevant regulations and guidelines at work and ensure process compliance PC2. adhere to procedures or systems in place for risk assessment, occupational standards, personal protective equipment (PPE) and other relevant occupational safety regulations Personal protective equipment: mask, paint dress, hand gloves, safety shoes, switch off cell phones 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 finishing product with spray painting	To be competent, the user/individual on the job must be able to: PC6. obtain job specification from a valid and approved source Valid sources: job instructions; drawing instructions; material specifications; reference tables/charts; national, international and organizational standards; planning documentation; quality control documents; operation sheets; process specifications PC7. read and establish job requirements from the job specification document accurately Job specification documents: detailed component drawings, approved









	1	metnods
		sketches/illustrations, schematic diagrams, fabrication drawings, casting
		drawings, operational diagrams, contractual specifications
	PC8.	prepare and maintain the work area as per procedure or operation
		specification
	PC9.	obtain various types of coating materials and consumables required for
		painting operations through spray as per specifications
		Spray coating materials: single pack (air dry), two-pack material, single pack
		(stoving), other specific material
	PC10.	identify and obtain various kinds of spray guns, tools and equipment required
		for painting operations as per specifications
		Spray guns: non-compliant or conventional air atomizing; electrostatic
		rotating head manual; air atomizing HVLP; electrostatic air atomizing HVLP;
	- E.Z R.S.	air atomizing compliant; electrostatic conventional air atomizing; airless;
		electrostatic airless; air assisted airless; electrostatic air assisted airless
	, 7	Equipment for locating components: free standing, specialized jigs, trays,
	12-	other specific device
	PC11.	ensure the material surfaces to be treated are suitably prepared for the
	1	finishing operations to be carried of the control o
	THE PERSON NAMED IN	check that the painting equipment is at satisfactory operating conditions
	V 3	position the part correctly for painting
	PC14.	prepare the paint gun appropriately
)}~<	Preparation: clean flow cup, nozzle is clean, hole in the cap is clean
	PC15.	adjust air pressure and flow of paint gun as required for the job (size of
		droplet, width of spray, sprinkle thickness)
	PC16.	prepare paint as per requirement and job specification (stirring, mixing
		hardener, etc.)
	PC17.	use correct procedure during preparation activities to cover welded joints
		(clean with emery, masking machined surface, resin and hardener paste
		preparation and application, etc.)
		Preparation activities: coating preparation (conductivity); masking; surface
		pre-treatments; coating preparation (mixing); degreasing and cleaning;
	DC16	reactivating treatments; coating preparation (viscosity); sealing
	PC18.	use preparatory processes to prepare for painting as appropriate (eg. Putty
		preparation and application, primer preparation and application, sanding,
et data to the	.	emery, masking, cleaning with thinner, wipes, etc.)
Finish the product with spray painting		ompetent, the user/individual on the job must be able to: check that the finishing equipment and coatings are set up and maintained at
with spray paniting	1 013.	satisfactory operating conditions and levels
	PC20	carry out the coating and painting process in accordance with operating
	1 020.	carry out the couting and painting process in accordance with operating









$\begin{array}{c} CSC/N0702 \ Perform \ finishing \ of \ materials \ by \ applying \ paints/liquid \ coatings \ by \ spray \\ \underline{\qquad \qquad methods} \end{array}$

	methods
	procedures, selecting methods for application environment and the
	component specification requirements
	Selecting method for application environment: positive pressure spray
	booths, suction methods for controlling overspray, spray media washed spray
	booths, dry-backed spray booths, water washed spray booths
	PC21. ensure that the painted work-piece achieves the required characteristics and
	meets the finishing specification
	PC22. check for quality parameters using range of appropriate test
	Quality parameters: thickness, flakiness, peeling, shade match as per shade
	card
	Tests: Coat meter test, Scratch test, Shade test
	PC23. dispose waste and excess materials in line with agreed organizational
	procedures
	PC24. deal promptly and effectively with problems within control, and seek help
	and guidance from the relevant people for problems that cannot be resolved
	PC25. keep the painting and spraying equipment to a safe condition on completion
	of the activities
	PC26. leave the work area in a safe and tidy condition on completion of the fitting
	activities
Handle the	To be competent, the user/individual on the job must be able to:
unresolved problems	PC27. refer unresolved job related problems to appropriate personnel for support
	PC28. monitor the problem and keep the supervisor informed about progress or any
	delays in resolving the problem
Knowledge and Unders	standing (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. relevant legislation, standards, policies, and procedures followed in the
(Knowledge of the	company relevant to own employment and performance conditions
company /	KA2. relevant health and safety requirements applicable in the work place
organization and	KA3. own job role and responsibilities and sources for information pertaining to
its processes)	employment terms, entitlements, job role and responsibilities
	KA4. reporting structure, inter-dependent functions, lines and procedures in the
	work area
	KA5. how to engage with specialists for support in order to resolve incidents and
	service requests
	KA6. importance of working in clean and safe environment practices and
	procedures
	KA7. relevant people and their responsibilities within the work area
	KA8. escalation matrix and procedures for reporting work and employment related
	issues
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B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. kinds of common metals, metal alloys used as substrate of job
	Substrate: ferrous metals, non-ferrous metals and alloys
	KB2. common terminology used in painting and spraying
	KB3. media to be used for painting and coating different types of material
	Spray coating materials: single pack (air dry), two-pack material, single pack
	(stoving), other specific material
	KB4. specific health and safety precautions which must be taken when carrying out
	painting and spraying
	KB5. specific safety precautions to be taken when working with manual spray guns
	and industrial coating materials (including specific legislation, local authority
	authorization, codes of practice relating to the coating of materials/
	application using compressed air, high pressure paint atomization/supply,
	high voltages and earthing)
	KB6. health and safety requirements of the work area in which you are carrying
	out manual spraying activities
	KB7. hazards associated with applying paint finishes by manual spraying
	techniques and with the materials and equipment used and how they can be
	minimized
	KB8. knowledge and ability to use spray materials
	KB9. assessment parameters of the component suitability for spray coating
	Assessment parameters: eg. suitable method of handling, correct method of
	pre-treatment, the correct coating material and the most efficient and
	appropriate method of application, etc.
	KB10. meaning, importance and assessment of the coating specification
	KB11. quality parameters to be met and performance standards of the final coating
	for various types of coatings
	Quality parameters: thickness, flakiness, peeling, shade match as per shade
	card, corrosion resistance, friction properties, abrasion resistance
	KB12. correct handling of the component to suit the application process
	KB13. procedures for the handling and safe use of coating materials and solvents
	KB14. preparation, mixing and confirmation of the correct parameters of the
	coating materials to be used
	Correct parameters: solid content of coating materials; evaporation rates of
	solvent in coating materials; viscosity of coating materials; correct mixing of
	paints; particle size and filtration; effect of temperature on viscosity and
	spraying characteristics; agitation of material being sprayed
	KB15. measures to be taken in case of repainting an old surface
	KB16. equipment for applying paint as per the job materials and the finish required









	methods
	Equipment: eg. gravity feed, single pressure pot, pumped feeds, manifold
	supplies, spray gun atomizing and air control, needle settings and cap sizes,
	fluid delivery rates and fan shapes, etc.
	KB17. setting up and correct technique for efficient use, of manual spray equipment
	KB18. selection and setting up for efficient use of the application environment
	Selecting method for application environment: positive pressure spray
	booths, suction methods for controlling overspray, spray media washed spray
	booths, dry-backed spray booths, water washed spray booths
	KB19. selection of the drying/curing processes including natural and electrical ovens
	Drying/curing process: air curing, thermal curing, infra-red curing, ultra-violet
	curing, induction curing
	KB20. methods used to cure coatings
	Methods: e.g. air drying, induction curing, ultra-violet curing, thermal curing
	(convection), infra-red curing, etc.
	KB21. cleaning and maintenance of the spray equipment
	KB22. simple, non-destructive testing procedures to ensure that color, gloss,
	thickness, adhesion and other required performance qualities are achieved
	Tests: Coat meter test, Scratch test adde test
	KB23. recognition of coating defects and their prevention and/or correction
	(including how to remove poorly applied coatings without damaging the job
	surface material)
	KB24. minimizing and handling waste materials
	KB25. environmental impact of the materials being used and how to minimize it
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 basic 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,
	significant figures, fractions as a decimal quantity
	SA7. use metric systems of measurement
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA8. convey and share technical information clearly using appropriate language
	SA9. check and clarify task-related information
	SA10. liaise with appropriate authorities using correct protocol
	SA11. communicate with people in respectful form and manner in line with
	organizational protocol
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
	CustomerCentricity The user/individual on the job needs to know and understand how to:
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	The user/individual on the job needs to know and understand how to:
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SB12. pric	oritize and	l plan fo	r problem	solving
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- SB13. communicate problems appropriately to others
- SB14. identify sources of information and support for problem solving
- SB15. seek assistance and support from other sources to solve problems
- SB16. identify effective resolution techniques
- SB17. select and apply resolution techniques
- SB18. seek evidence for problem resolution

Analytical Thinking

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

- SB19. undertake and express new ideas and initiatives to others
- SB20. modify work plan to overcome unforeseen difficulties or developments that occur as work progresses
- SB21. participate in improvement procedures including process, quality and internal/external customer/supplier relationships
- SB22. enhance one's competencies in new and different situations and contexts to achieve more

Critical Thinking

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

- SB23. participate in on-the-job and other learning, training and development interventions and assessments
- SB24. clarify task related information with appropriate personnel or technical adviser
- SB25. seek to improve and modify own work practices
- SB26. maintain current knowledge of application standards, legislation, codes of practice and product/process developments









NOS Version Control

NOS Code	CSC/N0702		
Credits	TBD Version number 1.0		1.0
Industry	Capital Goods	Drafted on	10/04/2014
Industry Sub-sector	 Machine Tools Plastics Manufacturing Machinery Textile Manufacturing Machinery Process Plant Machinery Electrical and Power Machinery Light Engineering Goods 	Last reviewed on	24/11/2017
Occupation	Coating and Painting	Next review date	24/11/2021









Use basic health and safety practices at the workplace

National Occupational Standard



Overview

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









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

Unit Code	CSC/N1335	
Unit Title (Task)	Use basic health and safety practices at the workplace	
Description	This OS unit is about knowledge and practices relating to health, safety and security that candidates need to use in the workplace. It covers responsibilities towards self, others, assets and the environment.	
Scope	This unit/task covers the following:	
	Health and safety	
	Fire safety	
	Emergencies, rescue and first-aid procedure	
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria	
Health and safety	To be competent, the user/individual on the job must be able to: PC1. use protective clothing/equipment for specific tasks and work conditions Protective clothing: leather or asbestos gloves, flame proof aprons, flame proof overalls buttoned to neck, cuffiess (without folds), trousers, reinforced footwear, helmets/hard hats, cap and shoulder covers, ear defenders/plugs, safety boots, knee pads, particle masks, glasses/goggles/visors Equipment: hand shields, machine guards, residual current devices, shields, dust sheets, respirator PC2. state the name and location of people responsible for health and safety in the workplace PC3. state the names and location of documents that refer to health and safety in the workplace PC4. identify job-site hazardous work and state possible causes of risk or accident in the workplace Hazards: sharp edged and heavy tools; heated metals; oxyfuel and gas cylinders; welding radiation; hazardous surfaces(sharp, slippery, uneven,	
	chipped, broken, etc.); hazardous substances(chemicals, gas, oxy-fuel, fumes, dust, etc.); physical hazards(working at heights, large and heavy objects and machines, sharp and piercing objects, tolls and machines, intense light, load noise, obstructions in corridors, by doors, blind turns, noise, over stacked shelves and packages, etc.) electrical hazards (power supply and points, loose and naked cables and wires, electrical machines and appliances, etc.) Possible causes of risk and accident: physical actions; reading; listening to and giving instructions; inattention; sickness and incapacity (such as	





harness, fall arrestors, etc.





PC5.

drunkenness); health hazards (such as untreated injuries and contagious illness)

carry out safe working practices while dealing with hazards to ensure the

- safety of self and others

 Safe working practices: using protective clothing and equipment; putting up and reading safety signs; handle tools in the correct manner and store and maintain them properly; keep work area clear of clutter, spillage and unsafe object lying casually; while working with electricity take all electrical precautions like insulated clothing, adequate equipment insulation, use of control equipment, dry work area, switch off the power supply when not required, etc.; safe lifting and carrying practices; use equipment that is
- PC6. state methods of accident prevention in the work environment of the job role Methods of accident prevention: training in health and safety procedures; using health and safety procedures; use of equipment and working practices (such as safe carrying procedures); safety notices, advice; instruction from colleagues and supervisors

working properly and is well maintained; take due measures for safety while working in confined places, trenches or at heights, etc. including safety

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

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

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

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









CSC/N1335 Use	e 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	To be competent, the user/individual on the job must be able to:
and first-aid	PC18. demonstrate how to free a person from electrocution
procedures	PC19. administer appropriate first aid to ms where required eg. in case of
	bleeding, burns, choking, electric shock, poisoning etc.
	PC20. demonstrate basic techniques of bandaging
	PC21. respond promptly and appropriately to an accident situation or medical emergency in real or simulated environments
	PC22. perform and organize loss minimization or rescue activity during an accident
	in real or simulated environments
	PC23. administer first aid to victims in case of a heart attack or cardiac arrest due 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









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

CSC/191555 Use basic hearth and safety practices at the workplace			
Knowledge and Unders	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 practices		
	(such as safe carrying procedures); safety notices, advice; instruction from		
	colleagues and supervisors		
	KB6. safe working practices when working with tools and machines		
	KB7. safe working practices while working at various hazardous sites		
	KB8. where to find all the general health and safety equipment in the workplace		
	KB9. various dangers associated with the use of electrical equipment		
	KB10. preventative and remedial actions to be taken in the case of exposure to toxic		
	materials		
	Exposure: ingested, contact with skin, inhaled		
	Preventative action: ventilation, masks, protective clothing/ equipment);		
	Remedial action: immediate first aid, report to supervisor		
	Toxic materials: solvents, flux, lead		
	KB11. importance of using protective clothing/equipment while working		
	KB12. precautionary activities to prevent the fire accident		
	KB13. various causes of fire		
	Causes of fires: heating of metal; spontaneous ignition; sparking; electrical		
	heating; loose fires (smoking, welding, etc.); chemical fires; etc.		
	KB14. techniques of using the different fire extinguishers		









CSC/N1335 Use	e basic health and safety practices at the workplace		
	KB15. different methods of extinguishing fire		
	KB16. different materials used for extinguishing fire		
	Materials: sand, water, foam, CO ₂ , dry powder		
	KB17. rescue techniques applied during a fire hazard		
	KB18. various types of safety signs and what they mean		
	KB19. appropriate basic first aid treatment relevant to the condition eg. shock,		
	electrical shock, bleeding, breaks to bones, minor burns, resuscitation,		
	poisoning, eye injuries		
	KB20. content of written accident report		
	KB21. potential injuries and ill health associated with incorrect manual handing		
	KB22. safe lifting and carrying practices		
	KB23. personal safety, health and dignity issues relating to the movement of a		
	person by others		
	KB24. potential impact to a person who is moved incorrectly		
Skills (S)	NB24. Potential impact to a person who is moved interrectly		
A. Core Skills/	Reading Skills		
Generic Skills			
	The user/ individual on the job needs to know and understand how to:		
	SA1. read and comprehend basic content 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		
	CustomerCentricity		
	3333333		









CSC/N1335 Use basic health and safety practices at the workplac	ce
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The user/individual on the job needs to know and understand how to:

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

Problem Solving

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

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

Analytical Thinking

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

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

Critical Thinking

NA









Use basic health and safety practices at the workplace

NOS Version Control

NOS Code		CSC/N1335		
Credits	TBD	TBD Version number		
Industry	Capital Goods	Drafted on	10/04/2014	
Industry Sub-sector	1. Machine Tools 2. Plastics Manufacturing Machinery 3. Textile Manufacturing Machinery 4. Process Plant Machinery 5. Electrical and Power Machinery 6. Light Engineering Goods	Last reviewed on	24/11/2017	
Occupation	Coating and Painting	Next review date	24/11/2021	









Work effectively with others

National Occupational Standard



Overview

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









Work effectively with others

Unit Code	CSC/N1336	
Unit Title	Work effectively with others	
	This unit covers basic etiquette and competencies that a candidate is required to possess and demonstrate in their behavior and interactions with others at the workplace. These cover areas such as communication etiquette, discipline, listening etc. This unit/task covers the following: • Work effectively with others	
Performance Criteria(PC	C) w.r.t. the Scope	
	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 Underst	to resolve them and avoid conflict	
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 profession	
	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	









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









Work effectively with others

NOS Version Control

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



Qualifications Pack for Painting Technician (Spray Painting)

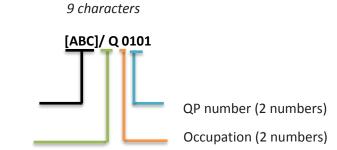




Annexure

Nomenclature for QP and NOS

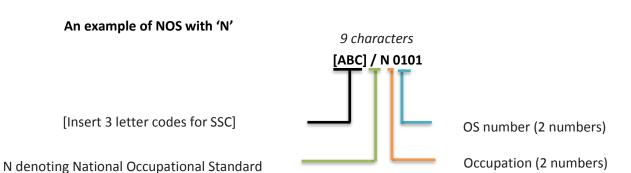
Qualifications Pack



[Insert 3 letter codes for SSC]

Q denoting Qualifications Pack

Occupational Standard



Back to top...



Qualifications Pack for Painting Technician (Spray Painting)





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

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

Sequence	Description	Example
Three letters	Capital Goods	CSC
Slash	/	/
Next letter	Whether Q P or N OS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01



Qualifications Pack for Painting Technician (Spray Painting)





Criteria For Assessment Of Trainees

Job Role: Painting Technician (Spray Painting)

Qualification Pack: CSC/Q0702

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/N0702 Perform finishing of materials by applying paints/liquid coatings by spray methods	PC1.comply with health and safety, environmental and other relevant regulations and guidelines at work and ensure process compliance	100	3	1	2
	PC2.adhere to procedures or systems in place for risk assessment, occupational standards, personal protective equipment (PPE) and other relevant occupational safety regulations		3	1	2
	PC3.work following laid down procedures and instructions		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 work area is clean and safe from hazards before and after the job is completed		2	0	2
	PC6.obtain job specification from a valid and approved source		2	0	2
	PC7.read and establish job requirements from the job specification document accurately		3	1	2



Qualifications Pack for Painting Technician (Spray Painting)





PC9. Obtain various types of coating materials and consumables required for painting operations through spray as per specifications PC10.identify and obtain various kinds of spray guns, tools and equipment required for painting operations as per specifications PC11.ensure the material surfaces to be treated are suitably prepared for the finishing operations to be carried out PC12.check that the painting equipment is at satisfactory operating conditions PC13. position the part correctly for painting PC14.prepare the painting un appropriately PC15. adjust air pressure and flow of paint gun as required for the job (size of droplet, width of spray, sprinkle thickness) PC16. prepare paint as per requirement and job specification (stirring, mixing hardener, etc.) PC17. use correct procedure during preparation activities to cover welded joints (clean with emery, masking machined surface, resin and hardener paste preparation and application, etc.) PC18. use preparatory processes to prepare for painting as appropriate (eg. Putty preparation and application, primer preparation and application, sanding, emery, masking, cleaning with thinner, wipes, etc.) PC19. check that the finishing equipment and coatings are set up and maintained at satisfactory operating conditions and levels PC20. carry out the coating and painting process in accordance with operating procedures, selecting methods for application environment and the component specification requirements PC21. ensure that the painted work-piece achieves the required characteristics and meets the finishing specification PC22. check for quality parameters using range of appropriate test PC23. dispose waste and excess materials in line with agreed organizational procedures PC24. deal promptly and effectively with problems within control, and seek help and guidance from the relevant people for problems that cannot be resolved PC25. keep the painting and spraying equipment to a safe				
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	control, and seek help and guidance from the relevant	3	0	3
condition on completion of the activities	PC25.keep the painting and spraying equipment to a safe condition on completion of the activities	4	1	3
PC26.leave the work area in a safe and tidy condition on completion of the fitting activities 3 0 3		3	0	3



Qualifications Pack for Painting Technician (Spray Painting)





	PC27.refer unresolved job related problems to appropriate personnel for support		4	1	3
	PC28.monitor the problem and keep the supervisor informed about progress or any delays in resolving the problem		4	0	4
		Total	100	23	77
CSC/N1335 Use basic health and	PC1.use protective clothing/equipment for specific tasks and work conditions		4	1	3
safety practices at the	PC2.state the name and location of people responsible for health and safety in the workplace		3	1	2
workplace	PC3.state the names and location of documents that refer to health and safety in the workplace		3	1	2
	PC4.identify job-site hazardous work and state possible causes of risk or accident in the workplace		5	2	3
	PC5.carry out safe working practices while dealing with hazards to ensure the safety of self and others		4	2	2
	PC6.state methods of accident prevention in the work environment of the job role		3	2	1
	PC7.state location of general health and safety equipment in the workplace		5	2	3
	PC8.inspect for faults, set up and safely use steps and ladders in general use		5	2	3
	PC9.work safely in and around trenches, elevated places and confined areas		5	2	3
	PC10.lift heavy objects safely using correct procedures		4	2	2
	PC11.apply good housekeeping practices at all times	100	5	2	3
	PC12.identify common hazard signs displayed in various areas		3	1	2
	PC13.retrieve and/or point out documents that refer to health and safety in the workplace		4	1	3
	PC14.use the various appropriate fire extinguishers on different types of fires correctly		3	1	2
	PC15.demonstrate rescue techniques applied during fire hazard		3	1	2
	PC16.demonstrate good housekeeping in order to prevent fire hazards		4	1	3
	PC17.demonstrate the correct use of a fire extinguisher		4	1	3
	PC18.demonstrate how to free a person from electrocution		4	1	3
	PC19.administer appropriate first aid to victims where required eg. in case of bleeding, burns, choking, electric shock, poisoning etc.		3	1	2
	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



Qualifications Pack for Painting Technician (Spray Painting)





	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		10	3	7
	PC3.give information to others clearly, at a pace and in a manner that helps them to understand		10	3	7
	PC4.display helpful behavior by assisting others in performing tasks in a positive manner, where required and possible		10	3	7
	PC5.consult with and assist others to maximize effectiveness and efficiency in carrying out tasks	100	10	3	7
	PC6.display appropriate communication etiquette while working		10	3	7
	PC7.display active listening skills while interacting with others at work		10	3	7
	PC8.use appropriate tone, pitch and language to convey politeness, assertiveness, care and professionalism		10	3	7
	PC9.demonstrate responsible and disciplined behaviors at the workplace		10	3	7
	PC10.escalate grievances and problems to appropriate authority as per procedure to resolve them and avoid conflict		10	3	7
		Total	100	30	70