



Model Curriculum

1. Powder Coater

SECTOR: PAINTS AND COATINGS
SUB-SECTOR: APPLICATION
OCCUPATION: POWDER COATER
REF ID: PCS/Q5102, V1.0
NSQF LEVEL: 4



 Skill India सौभाग्यं भारत - कुशलं भवतु	<p>PAINTS AND COATINGS SKILL COUNCIL</p> 	 N·S·D·C National Skill Development Corporation Transforming the skill landscape
<h2>Certificate</h2>		
<h3>CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS</h3>		
is hereby issued by the		
PAINTS AND COATINGS SKILL COUNCIL		
for		
MODEL CURRICULUM		
Complying to National Occupational Standards of Job Role/ Qualification Pack: 'Powder Coater' QP No. 'PCS/Q5102 NSQF Level 4'		
Date of Issuance:	October 3 rd , 2016	 Authorised Signatory (Paints and Coatings Skill Council)
Valid up to*:	March 31 st , 2018	
*Valid up to the next review date of the Qualification Pack or the 'Valid up to' date mentioned above (whichever is earlier)		



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Powder Coater

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Powder Coater”, in the “Paints and Coatings” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Powder Coater		
Qualification Pack Name & Reference ID. ID	PCS/Q5102, v1.0		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	10th Standard passed		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Know about the sector: Discuss the Paints and Coatings sector in India and its sub-sectors • Know about Powder Coating: What is Powder Coating; its benefits and features • Prepare a part or an article for Powder Coating: Carry out pre-treatment on the part to be Powder Coated • Demonstrate how to Powder Coat a surface: Execute tasks such as correct application with a gun, bake the article at the appropriate temperature for the right time in the baking oven and achieve desired finish • Understand excellence in Powder Coating: Recognise good quality finish and identify defects • Maintain tools, equipment and materials required: Identification and handling of tools and materials • Demonstrate various skills: Performance of behavioural, professional, technical and communication skills • Understand safety: Work in a safe manner without endangering your health and that of your colleagues 		



This course encompasses 8 out of 8 National Occupational Standards (NOS) of “Powder Coater” Qualification Pack issued by “Paints and Coatings Skill Council”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Introduction</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>Corresponding NOS Code Bridge Module</p>	<ul style="list-style-type: none"> Understand General Discipline in the class room (Do’s & Don’ts) Understand the scope of the Paints and Coatings sector in India with its sub sectors Understand the Powder Coating segment Understand the role of a Powder Coater in the industry Advantages and benefits and features of Powder Coatings as well as its shortcomings Learn and Practice Basic skills of communication 	Laptop, white board, marker, projector
2	<p>Prepare for coating</p> <p>Theory Duration (hh:mm) 06:00</p> <p>Practical Duration (hh:mm) 10:00</p> <p>Corresponding NOS Code PCS/N5105</p>	<ul style="list-style-type: none"> Understand what are Powder Coatings, types, their characteristics and where they are used Compare and explain differences between Powder Coating and Liquid Paints Understand components of Powder Coating and paint chemistry Learn basics of how Powder Coatings are made Learn to study and understand customer drawings and specifications for Powder Coatings Prepare for appropriate jiggging to carry out the coating job Understand and describe different colour finish and specifications in Powder Coatings 	Laptop, white board, marker, projector, rope, first aid kit.
3	<p>Pretreat the section to be coated</p> <p>Theory Duration (hh:mm) 21:00</p> <p>Practical Duration (hh:mm) 35:00</p> <p>Corresponding NOS Code PCS/N5106</p>	<ul style="list-style-type: none"> Understand need for pretreatment before Powder Coating and the overall process Discuss the different methods for pre-treatment, mechanical and chemical Relative merits and demerits of different methods of pretreatments Learn to inspect substrates and the importance of such inspection Understand the different stages in chemical pre-treatment and the purpose of each stage Learn to identify defects and problems of pre-treated parts and how these can be overcome Learn the importance of following standard operating procedures of pre-treatment 	Laptop, white board, marker, projector Chemical pretreatment set-up, wire brush. Requisite chemicals and reagents, lab glassware, sand paper and cotton rag.



Sr. No.	Module	Key Learning Outcomes	Equipment Required
4	<p>Perform Powder Coating</p> <p>Theory Duration (hh:mm) 20:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code PCS/N5109</p>	<ul style="list-style-type: none"> Learn how to carry out coating of the parts or sections in a Powder Coating booth Understand various controls and settings that can affect the quality of the job and how to vary them to get appropriate results Learn to perform different tests on the finished job to check for properties Learn how to cure a coated component Learn to identify defects and fix them Learn about the methods of packing of finished powder products and precautions to be taken for safe storage 	<p>Laptop, white board, marker, projector</p> <p>Spray booth, powder spray guns, industrial oven, Adhesion tester X Cut type as per ASTM D 3359, Wire Brush, Compressed Air Supply, DFT Gauge.</p>
5	<p>Maintain jigs, tools and machines</p> <p>Theory Duration (hh:mm) 10:00</p> <p>Practical Duration (hh:mm) 30:00</p> <p>Corresponding NOS Code PCS/N5108</p>	<ul style="list-style-type: none"> Learn how to maintain pre-treatment bath, powder coating booth and oven, jigs and hanging devices Learn about standard operating procedure document Learn the importance of following the document for good maintenance Learn what components and parts need to be inspected and the resources required for good maintenance Understand the cleaning procedures to be carried for a colour change 	<p>Laptop, white board, marker, projector</p> <p>Chemical pre-treatment set-up, wire brush. Requisite chemicals and reagents, lab glassware, sand paper and cotton rag, spray booth, powder spray guns, industrial oven, Adhesion tester X Cut type as per ASTM D 3359, Wire Brush, Compressed Air Supply, DFT Gauge.</p>
6	<p>Co-ordinate with colleagues and/or customers</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 04:00</p> <p>Corresponding NOS Code PCS/N9901</p>	<ul style="list-style-type: none"> Understand customer requirements and specifications Learn about various performance indicators, meaning of targets and timelines and how to communicate about these with your colleagues and customers Learn appropriate behavioural skills whilst dealing with colleagues/co-workers Learn how you can contribute to improving customer satisfaction 	<p>Laptop, white board, marker, projector</p>



Sr. No.	Module	Key Learning Outcomes	Equipment Required
7	<p>Maintain standards of product / service quality</p> <p>Theory Duration (hh:mm) 12:00</p> <p>Practical Duration (hh:mm) 10:00</p> <p>Corresponding NOS Code PCS/N9902</p>	<ul style="list-style-type: none"> Learn about quality requirements for Powder Coating process Understand how quality is defined, various tests and their acceptance criteria, and how standards can be achieved Learn about various equipment used for quality tests and how to use them Learn to meet and exceed quality requirements of a customer 	Laptop, white board, marker, projector
8	<p>Maintain OH&S standards and follow environmental standards</p> <p>Theory Duration (hh:mm) 06:00</p> <p>Practical Duration (hh:mm) 16:00</p> <p>Corresponding NOS Code PCS/N9903</p>	<ul style="list-style-type: none"> Learn about health hazards of chemicals used in Powder Coating process as well as Powder Coating materials Learn the use and importance of personal protective equipment Learn to handle chemical, powder materials, tools and equipment in a safe manner Minimising risks of inhalation injury Become aware of hazards in Powder Coating process and how to prevent/eliminate them Understand methods and precautions to be taken for safe disposal of waste generated in the coating process Learn about safety signs in a plant environment and how to interpret and adhere to them 	Laptop, white board, marker, projector
9	<p>Maintain IPR of organisation and customers</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 04:00</p> <p>Corresponding NOS Code PCS/N9904</p>	<ul style="list-style-type: none"> Learn to explain the meaning of IPR and the various confidential information and trade secrets in an organisation Understand why protection of IPR and trade secrets are critical for a business Learn about your responsibilities in maintaining IPR and trade secrets of your organisation and customers 	Laptop, white board, marker, projector
	Total Duration	Unique Equipment Required: First aid kit	



Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Theory Duration 96:00 Practical Duration 144:00		

Grand Total Course Duration: **240Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by [Paints and Coatings Skill Council](#))



Trainer Prerequisites for Job role: "Powder Coater" mapped to Qualification Pack: "PCS/Q5102, v1.0"

Sr. No.	Area	Details
1	Description	A Powder Coater is an individual who powder coats components of various sizes and shapes as per customer requirements or as per set quality standards of the company he works for.
2	Personal Attributes	A Powder Coater should have an eye for detail, good leadership, communication and observation skills. He / she should be physically strong and have manual dexterity to perform on the job.
3	Minimum Educational Qualifications	12 th standard in any discipline
4a	Domain Certification	Certified for Job Role: " <u>Powder Coater</u> " mapped to QP: " <u>PCS/Q5102, v1.0</u> ". Minimum accepted score is 80%
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "SSC/Q1402". Minimum accepted % as per respective SSC guidelines is 70%.
5	Experience	<ul style="list-style-type: none"> 2-year experience of powder coating application / project management and relevant training or teaching experience.



Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Powder Coater
Qualification Pack	PCS/Q5102, v1.0
Sector Skill Council	Paints and Coatings

Sr. No.	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 center based on this criteria
5	To pass the Qualification Pack, every trainee should score a minimum of 60% in aggregate and 40% in each NOS
6	The marks are allocated PC wise; however, every NOS will carry a weight age in the total marks allocated to the specific QP

	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N5105 Prepare for coating	PC1. study the plan for powder coating	50	4	1.5	2.5
	PC2. study the assembly of the metal segment to be coated		2	0.5	1.5
	PC3. disassemble the segment if it has multiple pieces to be coated separately		2	0.5	1.5
	PC4. remove the pieces which are made up of rubber, plastic, etc.		2	0.5	1.5
	PC5. understand the conditions where segment is to be used, hot, wet, friction		5	2	3
	PC6. study the metal and chemistry required, e.g., pure epoxy, epoxy polyester, pure polyester, polyurethane		5	2	3
	PC7. colour of paint and finish required		5	2	3
	PC8. document the colour, finish and chemistry required, process description and time and effort estimated for the process		3	1	2
	PC9. meet the customer at appropriate time		3	0.5	2.5
	PC10. present the fact file document to the customer and seek approval		3	1	2
	PC11. make necessary changes after discussion and take approval to start the process		3	1	2
	PC12. select the size of jigs for hanging the segments to be prepared for coating		4	1	3
	PC13. hang segments on the jigs		4	1	3



	PC14. check the controls to see if jigs conveyour is in good working condition		5	1.5	3.5
	POINTS		50	16	34
	TOTAL POINTS				50

	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N5106 Pre-treat the section to be powder coated	PC1. use brush to remove dust from the corners	50	1	0.25	0.75
	PC2. fix the buffing pad		2	0.5	1.5
	PC3. pour the chemical for cleaning onto the buffing pad		2	0.5	1.5
	PC4. switch on the buffer		2	0.5	1.5
	PC5. clean the surface by moving buffer machine on the component surface in circular motion		4	1	3
	PC6. load the tanks with chemical and check the concentration of chemicals		5	2	3
	PC7. hang the components on jigs and move towards the pre-treatment tanks		4	1	3
	PC8. set the control of jigs, conveyor speed and temperature		5	2	3
	PC9. dip component in alkaline/acid cleaners to degrease the section		4	1	3
	PC10. rinse the metal in water		4	1	3
	PC11. dip the component in activation solution to convert any chemical on the metal surface to fumes		4	1	3
	PC12. dip the component in phosphatising/ chromating solution to remove rust and formation of blue-grey layer to prevent the metal for corrosion or oxidation		4	1	3
	PC13. final chemical rinse as passivation treatment for further enhancing the anti-corrosion performance of the metal		4	1	3
	PC14. dry metal with hot air		3	0.5	2.5
	PC15. perform cloth test to check moisture		2	0.5	1.5
	POINTS		50	13.75	36.25
	TOTAL POINTS				50

	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N5109 Perform powder coating	PC1. set controls of spray gun movements	50	4	1	3
	PC2. set sensors to ensure uniform powder delivery rate		4	1	3
	PC3. set conveyor speed		4	1	3



	PC4. powder coat the parts by spray guns adjusting the pressure on the fluid container and size of fluid orifice	5	1	4
	PC5. measure microns of thickness of powder coating using micro-meter	5	1	4
	PC6. tape test to ensure adhesion of paint on surface	5	1	4
	PC7. visual check to see colour and finish of sections	5	2	3
	PC8. compare the painted sections with the sample provided	4	1	3
	PC9. calibrate the oven temperature and timer	3	1	2
	PC10. set conveyor in motion or use batch curing by moving sections inside the oven at temperature and for time as per company's standards	2	0.5	1.5
	PC11. clean the sections to remove dust	3	0.5	2.5
	PC12. assemble the parts of the component, as required	3	1	2
	PC13. pack the component and dispatch	3	1	2
	POINTS	50	13	37
	TOTAL POINTS			50

	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N5108 Maintain jigs and parts	PC1. remove surface oils from tank using oil skimmers	50	7	2	5
	PC2. remove particles from the bottom of the tank using bag filtration		7	2	5
	PC3. remove emulsified and suspended oils using ultrafiltration or centrifugation		7	2	5
	PC4. remove deposits from paint booths		7	2	5
	PC5. clean powder hoses		6	1	5
	PC6. remove deposits from powder guns		6	1	5
	PC7. clean jigs after the process is over		5	1	4
	PC8. clean the facility regularly		5	1	4
	POINTS		50	12	38
	TOTAL POINTS				50

	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N9901 Coordinate with colleagues and/or customers	PC1. receive job order and instructions from reporting superior	50	0.5	0.0	0.5
	PC2. understand the work output requirements, targets, performance indicators and incentives		2.0	0.5	1.5



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
	PC3. deliver quality work on time and report any anticipated reasons for delays		2.0	0.5	1.5
	PC4. escalate unresolved problems or complaints to the relevant senior		2.0	0.5	1.5
	PC5. communicate maintenance and repair schedule proactively to the superior		2.0	0.5	1.5
	PC6. receive feedback on work standards		1.0	0.0	1.0
	PC7. document the completed work schedule and handover to the superior		2.0	0.5	1.5
	PC8. exhibit trust, support and respect to all the colleagues in the workplace		1.0	0.25	0.75
	PC9. aim to achieve smooth workflow		2.0	0.5	1.5
	PC10. help and assist colleagues with information and knowledge		1.0	0.0	1.0
	PC11. seek assistance from the colleagues when required		1.0	0.25	0.75
	PC12. identify the potential and existing conflicts with the colleagues and resolve		1.0	0.25	0.75
	PC13. pass on essential information to other colleagues on timely basis		1.0	0.0	1.0
	PC14. maintain the etiquette, use polite language, demonstrate responsible and disciplined behaviours to the colleagues		2.0	0.5	1.5
	PC15. interact with colleagues from different functions clearly and effectively on all aspects to carry out the work among the team and understand the nature of their work		1.0	0.25	0.75
	PC16. put team over individual goals and multi task or share work where necessary supporting the colleagues		2.0	0.0	2.0
	PC17. highlight any errors of colleagues, help to rectify and ensure quality output		1.0	0.25	0.75
	PC18. work with cooperation, coordination, communication and collaboration, with shared goals and supporting each other's performance		1.0	0.0	1.0
	PC19. ask more questions to the customers and identify their needs		1.0	0.25	0.75
	PC20. possess strong knowledge on the product, services and market		2.0	0.5	1.5
	PC21. brief the customers clearly on potential costs and hazards		1.0	0.25	0.75
	PC22. communicate with the customers in a polite, professional and friendly manner		1.0	0.25	0.75
	PC23. build effective but impersonal relationship with the customers		0.5	0.25	0.25
	PC24. ensure the appropriate language and tone are used with customers		1.0	0.25	0.75
	PC25. listen actively and have a two-way communication		1.0	0.25	0.75



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
	PC26. be sensitive to the gender, cultural and social differences such as modes of greeting, formality, etc.		1.0	0.25	0.75
	PC27. understand the customer expectations correctly and provide the appropriate products and services		2.0	0.5	1.5
	PC28. understand the customer dissatisfaction and address or escalate their complaints effectively		2.0	0.5	1.5
	PC29. maintain a positive, sensible and cooperative manner all time		1.0	0.25	0.75
	PC30. ensure to maintain a proper body language, dress code, gestures and etiquettes towards the customers		1.0	0.25	0.75
	PC31. avoid interrupting the customers while they talk		1.0	0.0	1.0
	PC32. ensure to avoid negative questions and statements to the customers		1.0	0.0	1.0
	PC33. inform the customers on any issues or problems before hand and also on the developments involving them		2.0	0.5	1.5
	PC34. ensure to respond back to the customer immediately for their voice messages, e-mails, apps, etc.		1.0	0.0	1.0
	PC35. develop good rapport with the customers and promote other products and services		2.0	0.5	1.5
	PC36. seek feedback from the customers on their understanding to what was discussed		1.0	0.0	1.0
	PC37. explain the terms and conditions clearly		2.0	0.5	1.5
	POINTS		50	10	40
	TOTAL POINTS				50

	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N9902 Maintain standards of product/ service quality	PC1. keep in mind the profiles of expected customers	50	2.0	0.5	1.5
	PC2. understand the target customers and their product/ service quality requirements as defined by the company		3.0	0.5	2.5
	PC3. receive superior's/ customer feedback regularly		2.0	0.0	2.0
	PC4. aim to build a good connect with the customers through quality product/ service		2.0	0.5	1.5
	PC5. keep tab on frequent discussions with regular customers on general likes and dislikes in the market, latest trends, customer expectations, etc.		2.0	0.5	1.5



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
	PC6. receive updates on regular feedbacks from the clients on current service, complaints, and improvements to be made, etc.		2.0	0.5	1.5
	PC7. if necessary, compulsively seek customer rating of product/ service in order to help develop a set of regularly improved procedures		2.0	0.5	1.5
	PC8. demonstrate quality orientation at all level		4.0	1.5	2.5
	PC9. aim to gain their long lasting loyalty through satisfaction		3.0	1.0	2.0
	PC10. ensure 100% customer satisfaction via product/ service quality		3.0	0.5	2.5
	PC11. treat the customers fairly and with due respect		3.0	0.5	2.5
	PC12. focus on executing company's marketing strategies and product development needs		3.0	1.0	2.0
	PC13. focus on enhancing brand value of company by maintaining or enhancing quality standards		3.0	1.0	2.0
	PC14. ensure that customer expectations are met		2.0	0.5	1.5
	PC15. learn to read customers' needs and wants		2.0	0.5	1.5
	PC16. willingly accept and implement new and innovative products and services that help improve customer satisfaction		3.0	1.0	2.0
	PC17. communicate feedback of customer to senior, especially, the negative feedback		2.0	0.5	1.5
	PC18. maintain close contact with the customers and focus groups		2.0	0.5	1.5
	PC19. offer promotions to improve product satisfaction level to the customers periodically		3.0	1.0	2.0
	PC20. weigh the cost of fulfilling unscheduled customer requests, consult with senior and advise the customer on alternatives		2.0	0.5	1.5
	POINTS		50	13	37
	TOTAL POINTS				50

	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N9903 Maintain O&HS	PC1. assess the various health, safety and environmental hazards in the work areas	50	1.5	0.4	1.1



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
standards and follow environmental norms	PC2. take necessary steps to eliminate or minimize the hazards		1.0	0.4	0.6
	PC3. analyze the causes of accidents at the workplace		1.5	0.4	1.1
	PC4. suggest measures to prevent such accidents from taking place		1.5	0.4	1.1
	PC5. take preventive measures to avoid risk of burns and other injury due to contact with hot surfaces, gas, fire, hot fluids/ liquids, etc.		1.5	0.4	1.1
	PC6. suggest methods to improve the existing safety procedures at the workplace		1.5	0.4	1.1
	PC7. dispose waste in the designated areas safely as per company's policies and rules		1.5	0.4	1.1
	PC8. maintain appropriate ventilation in the rooms while there is more exposure to paint vapours		1.0	0.4	0.6
	PC9. avoid dumping unused cans to safeguard the environment		1.0	0.0	1.0
	PC10. be aware of the locations of fire extinguishers, emergency exits, etc.		1.0	0.4	0.6
	PC11. practice correct emergency procedures		1.5	0.4	1.1
	PC12. check and review the storage areas frequently		1.5	0.4	1.1
	PC13. stack items in an organized way and use safe lifting techniques to reduce risk of injuries from handling procedures at the storage areas		1.5	0.4	1.1
	PC14. ensure to be safe while handling materials, tools, acids, chemicals, equipment, etc.		1.0	0.4	0.6
	PC15. store the chemicals and acids in a well-ventilated and locked areas with warning signs displayed		1.5	0.4	1.1
	PC16. ensure safe techniques while moving furniture and fixtures		1.5	0.4	1.1
	PC17. ensure to reduce risk of injury from use of electrical tools		1.5	0.4	1.1
	PC18. read the manufacturer's manual carefully before use of any equipment		1.0	0.0	1.0
	PC19. unplug the electrical equipment before performing maintenance		1.0	0.4	0.6
	PC20. keep the floors free from oil, water and grease to avoid slippery surface		1.0	0.4	0.6
	PC21. use rubber mats in the places where floors are constantly wet		1.0	0.0	1.0
	PC22. ensure safety from injuries of cuts to loss of fingers, while handling sharp hazardous tools and equipment		1.5	0.4	1.1



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
	PC23. use flat surfaces, secure holding and protective wear while using such sharp tools		1.5	0.4	1.1
	PC24. use health, safety and environmental protection practices for storing, cleaning, and maintaining tools, equipment, and supplies		1.5	0.4	1.1
	PC25. practice ergonomic lifting, bending, or moving equipment and supplies		1.5	0.4	1.1
	PC26. identify the requirement for maintaining environmental norms		1.0	0.4	0.6
	PC27. comply with the environmental safety norms while on work to prevent accidents and health hazards		1.0	0.4	0.6
	PC28. follow company policies and rules regarding use of hazardous materials to avoid health, safety and environmental impacts caused by them		1.0	0.4	0.6
	PC29. ensure the employees have access to first aid kit when needed		1.0	0.0	1.0
	PC30. ensure all equipment and tools are stored and maintained properly and safe to use		1.0	0.4	0.6
	PC31. ensure to use personal protective equipment and safety gear such as gloves, mask, headwear, footwear, glasses, goggles, etc. for specific tasks and work conditions where required		1.5	0.4	1.1
	PC32. ensure to display safety signs at places where necessary for people to be cautious		1.5	0.4	1.1
	PC33. ensure electrical precautions such as insulated clothing, adequate equipment insulation, dry work area, switch off the power supply when not required, etc.		1.5	0.4	1.1
	PC34. ensure availability of general health and safety equipment such as fire extinguishers, first aid equipment, safety equipment, clothing, safety installations such as fire exits, exhaust fans, etc.		1.5	0.4	1.1
	PC35. document all the first aid treatments, inspections, etc., conducted to keep track of the safety measures undertaken		1.0	0.4	0.6
	PC36. document all the environmental hazards caused and the measures undertaken to comply with the established safety procedures of the workplace		1.0	0.0	1.0
	PC37. report to the supervisor on any problems and hazards identified and any breach of environmental procedures.		1.0	0.4	0.6
	PC38. ensure zero accident at workplace		1.0	0.4	0.6
	PC39. adhere to safety standards and ensure no material damage		1.0	0.4	0.6



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
	PC40. take necessary action and correct any environmental hazards caused		1.0	0.4	0.6
	POINTS		50	14	36
	TOTAL POINTS				50

	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N9904 Maintain IPR of organisation and customer	PC1. prevent leak of new plans and designs to competitors by reporting on time	50	7.0	0.0	7.0
	PC2. be aware of any of company's product or design patents		8.0	1.0	7.0
	PC3. report IPR violations observed in the market, to supervisor or company head		8.0	2.0	6.0
	PC4. read copyright clause of the material published on the internet and any other printed material		8.0	0.5	7.5
	PC5. protect infringement upon customer's business or design plans		8.0	2.0	6.0
	PC6. consult supervisor or senior management when in doubt about using information available from customer		6.0	0.0	6.0
	PC7. report any infringement observed by anyone in the company		5.0	0.0	5.0
	POINTS		50	5.5	44.5
	TOTAL POINTS				50
	GRAND TOTAL	400			