



Model Curriculum

1. General Industrial (Liquid) Painter

SECTOR : PAINTS AND COATINGS

SUB-SECTOR: APPLICATION

OCCUPATION: INDUSTRIAL PAINT APPLICATION

REF ID : PCS/Q5108, V1.0

NSQF LEVEL : 4







 Skill India सौभाग्यं भारत - कुशलं भारत	<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>		
<p>is hereby issued by the</p> <p>PAINTS AND COATINGS SKILL COUNCIL</p> <p>for</p> <p>MODEL CURRICULUM</p>		
<p>Complying to National Occupational Standards of Job Role/ Qualification Pack: General Industrial (Liquid) Painter QP No. PCS/Q5308 NSQF Level 4</p>		
<p>Date of Issuance: December 27th, 2016</p> <p>Valid up to*: March 31st, 2018</p> <p><small>*Valid up to the next review date of the Qualification Pack or the 'Valid up to' date mentioned above (whichever is earlier)</small></p>	 Authorised Signatory (Paints and Coatings Skill Council)	



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General Industrial (Liquid) Painter

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “General Industrial (Liquid) Painter”, in the “Paints and Coatings” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	General Industrial (Liquid) Painter		
Qualification Pack Name & Reference ID. ID	PCS/Q5108, v1.0		
Version No.	1.0	Version Update Date	
Pre-requisites to Training	5 th Standard		
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 General Industrial (Liquid) Painting : What is General Industrial (Liquid) Painting ; its benefits and features • Study the drawing and production plan, the coating required, verify the details with the customer and prepare for jigging. • Demonstrate how to clean the substrate, load the sections/ components on the conveyor and perform pre-treatment. • Demonstrate how to prepare the paint for application, apply the paint on the surface and finish the surface. • Maintain pre-treatment baths and paint booth, tools, equipment and materials required. • 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 • Secure company's IPR and respect customers' copyright. 		



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

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction Theory Duration (hh:mm) 06:00 Practical Duration (hh:mm) 00:00 Corresponding NOS Code Bridge Module	<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 General Industrial (Liquid) Coating segment Understand the role of a General Industrial (Liquid) Painter in the industry Advantages and benefits and features of General Industrial (Liquid) Coatings as well as its shortcomings Learn and Practice Basic skills of communication 	Laptop, white board, marker, projector
2	Prepare for Coating Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 15:00 Corresponding NOS Code PCS/N5105	<ul style="list-style-type: none"> Understand the various types of General Industrial (Liquid) coatings, their characteristics and where they are used. Compare and explain the differences between the various coatings. Understand the composition of General Industrial (Liquid) coatings and its chemistry. Learn the basics of paints manufacture. Learn to study customer drawings and specifications for use of a suitable coating. Learn to study the production plan. Understand the condition of use of the components, the metal and chemistry, colour and finish of paint required. Rectify surface imperfections eg. weld spatters Understand the jigging requirements, select the right size of the jigs. 	Laptop, white board, marker, projector, first aid kit.
3	Pre treat the section to be coated Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 20:00 Corresponding NOS Code PCS/N5106	<ul style="list-style-type: none"> Understand the various methods for surface cleaning and surface preparation and its merits and demerits. Inspect the surface profile after surface preparation Carry out chemical pretreatment of the substrate as per the recommended procedure. 	Laptop, white board, marker, projector Wire Brush, Power tool for surface cleaning, Sand/Shot/Grit Blasting Machine, Chemical pretreatment set up, Dust filters, 3 stage filter regulator, Air Compressor



Sr. No.	Module	Key Learning Outcomes	Equipment Required
4	<p>Apply Top coat and Finish the surface</p> <p>Theory Duration (hh:mm) 30:00</p> <p>Practical Duration (hh:mm) 60:00</p> <p>Corresponding NOS Code PCS/N5107</p>	<ul style="list-style-type: none"> Read Product data sheet and Material Safety Data sheet before using the Paint. Understand the various types Paints used for General Industrial (Liquid) painting. Prepare the paint colour as per the recommended mixing ratio of paint and thinner or base, hardner and thinner, as per manufacturer's data sheet. Ensure proper mixing of the paint with the help of a pneumatic stirrer. Mask the area which is not to be coated Make proper arrangements for air less spray machine by adjusting the pressure and the orifice size. Apply paint on the substrate as per manufacturer's instruction and customer's specification Inspect the painted surface after the recommended drying for surface appearance and defects. Check the dry film thickness and adhesion of the coating. 	<p>Laptop, white board, marker, projector</p> <p>Stirrer, Spray gun air assisted, Airless brushes, rollers</p>
5	<p>Maintain Jigs and Parts</p> <p>Theory Duration (hh:mm) 10:00</p> <p>Practical Duration (hh:mm) 15:00</p> <p>Corresponding NOS Code PCS/N5108</p>	<ul style="list-style-type: none"> Read Product data sheet and Material Safety Data sheet before using the pretreatment chemicals. Understand the different types chemicals used for pretreatment. Understand the parameters to be maintained for each pretreatment bath. Ensure oil removal and sludge removal as per recommendations. Ensure cleaning of paint hoses, guns and jigs as per recommendations/ SOP Ensure cleaning and maintainance of the paint spray booth as recommended by the supplier. 	<p>Laptop, white board, marker, projector</p> <p>Pretreatment baths (lab model), various chemicals for pretreatment and bath maintainance.</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 the general industrial liquid painting process Understand how quality is defined, various tests and their acceptance criteria, and how standards can be achieved Learn about various equipment used for application and 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 the ingredients used in general industrial liquid coatings as well as its application process. Learn the importance and use of personal protective equipment Learn to handle chemical, paints materials, tools and equipment in a safe manner Learn procedures to minimise risks of inhalation and injury Become aware of the hazards in the application 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 symbols and signs in a plant/site 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



Sr. No.	Module	Key Learning Outcomes	Equipment Required
	Total Duration Theory Duration 96:00 Practical Duration 144:00	Unique Equipment Required: First aid kit	

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

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



Trainer Prerequisites for Job role: “General Industrial (Liquid) Painter” mapped to Qualification Pack: “PCS/Q5108, v1.0”

Sr. No.	Area	Details
1	Description	A General Industrial (Liquid) Painter is an individual who assesses the metal section, understands colour, chemistry and finish required by the customer, prepares part for liquid paint application and coats it using recommended tools and machines to achieve the desired finish as per company's standards or customer's requirements. The coating is carried out as per customer requirements and as set quality standards and specification.
2	Personal Attributes	A General Industrial (Liquid) Painter should undertake physical labour; work in a paint-redolent environment, have good eye-sight and no colour blindness and work in all types of weather conditions.
3	Minimum Educational Qualifications	12 th standard
4a	Domain Certification	Certified for Job Role: “General Industrial (Liquid) Painter” mapped to QP: “PCS/Q5108, v1.0”. Minimum accepted score is 80%
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: “Trainer”, mapped to the Qualification Pack: “MEP/Q0102”. Minimum accepted % as per respective SSC guidelines is 80%.
5	Experience	<ul style="list-style-type: none"> 2-year experience of Industrial Paint application / project management and relevant training or teaching experience.



Annexure: Assessment Criteria

Assessment Criteria	
Job Role	General Industrial (Liquid) Painter
Qualification Pack	PCS/Q5108, v1.0
Sector Skill Council	Paints and Coatings

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 center (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 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.

	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N5105 Prepare for coating	PC1. study the plan for powder coating	50	3.5	1	2.5
	PC2. study the assembly of the metal segment to be coated		3.5	1	2.5
	PC3. disassemble the segment if it has multiple pieces to be coated separately		3.5	1	2.5
	PC4. remove the pieces which are made up of rubber, plastic, etc.		3.5	1	2.5
	PC5. understand the conditions where segment is to be used, hot, wet, friction		3.5	1	2.5
	PC6. study the metal and chemistry required, e.g., pure epoxy, epoxy polyester, pure polyester, polyurethane		3.5	1	2.5
	PC7. colour of paint and finish required		3.5	1	2.5
	PC8. document the colour, finish and chemistry required, process description and time and effort estimated for the process		3.5	1	2.5
	PC9. meet the customer at appropriate time		3.5	1	2.5
	PC10. present the fact file document to the customer and seek approval		3.5	1	2.5
	PC11. make necessary changes after discussion and take approval to start the process		4	1.5	2.5
	PC12. select the size of jigs for hanging the segments to be prepared for coating		4	1.5	2.5
	PC13. hang segments on the jigs		3.5	1	2.5



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
	PC14. check the controls to see if jigs conveyour is in good working condition		3.5	1	2.5
	POINTS		50	15	35
	TOTAL POINTS				50

	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N5106 Pre treat the section to be coated	PC1. use brush to remove dust from the corners	50	3	1	2
	PC2. fix the buffing pad		3	1	2
	PC3. pour the chemical for cleaning onto the buffing pad		3	1	2
	PC4. switch on the buffer		3	1	2
	PC5. clean the surface by moving buffer machine on the component surface in circular motion		3	1	2
	PC6. load the tanks with chemical and check the concentration of chemicals		3	1	2
	PC7. hang the components on jigs and move towards the pre-treatment tanks		3	1	2
	PC8. set the control of jigs, conveyor speed and temperature		4	1.5	2.5
	PC9. dip component in alkaline/acid cleaners to degrease the section		4	1.5	2.5
	PC10. rinse the metal in water		4	1.5	2.5
	PC11. dip the component in activation solution to convert any chemical on the metal surface to fumes		4	1.5	2.5
	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	1.5	2.5
	PC13. final chemical rinse as passivation treatment for further enhancing the anti-corrosion performance of the metal		3	1	2
	PC14. dry metal with hot air		3	1	2
	PC15. perform cloth test to check moisture		3	1	2
	POINTS		50	17.5	32.5
	TOTAL POINTS				50



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
PCS/N5107 Apply top coat and finish the surface	PC1. check the paint colour as per the given mixing ratio	50	5	2	3
	PC2. prepare colour in mentioned ratio of pigment, thinner and hardener		5	2	3
	PC3. clean the surface by buffing		5	2	3
	PC4. fill the paint in the fluid container		5	2	3
	PC5. adjust controls for pressure in fluid container and size of the fluid orifice		5	2	3
	PC6. spray paint on the work surface in the paint booth		5	2	3
	PC7. maintain given pressure by hand or preprogrammed support sprayer		5	2	3
	PC8. remove masking		5	2	3
	PC9. send for curing		5	2	3
	PC10. after curing, check surface for any grains, etc., formed on the surface after painting		5	2	3
	POINTS		50	20	30
	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	6	2	4
	PC2. remove particles from the bottom of the tank using bag filtration		7	3	4
	PC3. remove emulsified and suspended oils using ultrafiltration or centrifugation		6	2	4
	PC4. remove deposits from paint booths		7	3	4
	PC5. clean powder hoses		6	2	4
	PC6. remove deposits from powder guns		6	2	4
	PC7. clean jigs after the process is over		6	2	4
	PC8. clean the facility regularly		6	2	4
	POINTS		50	18	32
	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
	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



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
	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
	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
PCC/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



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
	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
	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 standards and follow environmental norms	PC1. assess the various health, safety and environmental hazards in the work areas	50	1.5	0.4	1.1
	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



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
	PC22. ensure safety from injuries of cuts to loss of fingers, while handling sharp hazardous tools and equipment		1.5	0.4	1.1
	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



	Performance Criteria	Total Marks (400)	Out of	Theory	Skills Practical
	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
	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			