

Model Curriculum

Painter (Metal Handicrafts)

SECTOR: HANDICRAFTS AND CARPET
SUB-SECTOR: METALWARE
OCCUPATION: PAINTING AND PLATING
REF ID: HCS/Q3101, V1.0
NSQF LEVEL: 4



Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

HANDICRAFTS AND CARPET SECTOR SKILL COUNCIL

for the

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: '**Painter (Metal Handicrafts)** No. '**HCS/ Q 3101 NSQF Level 4**

Date of Issuance: **February 23rd, 2018**

Valid up to: **February 22nd, 2020**

* Valid up to the next review date of the Qualification Pack



Authorised Signatory
(Handicrafts and Carpet Sector Skill Council)

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Painter (Metal Handicrafts)

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Painter (Metal Handicrafts)”, in the “Handicrafts and Carpet” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Painter (Metal Handicrafts)		
Qualification Pack Name & Reference ID.	HCS/Q3101, v1.0		
Version No.	1.0	Version Update Date	23/02/2018
Pre-requisites to Training	Basic literacy, preferably 5th class pass		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Understand work requirement • Assemble the required raw materials • Prepare the paint • Prepare the metal surface • Paint the metal surface • Achieve quality standards • Lacquer the metal surface • Interact with supervisor or superior • Work as a team by coordinating with colleagues within and outside the department • Report and Document • Follow safety procedure and practices • Achieve safety standards • Adopt healthy work practices • Achieve work productivity while maintaining health • Carry out people management, product planning, market interfacing, financial management and record keeping • Conduct procurement of raw materials 		

Sr. No.	Module	Key Learning Outcomes	Equipment Required
3	<p>Apply paint on the metal surface</p> <p>Theory Duration (hh:mm) 30:00</p> <p>Practical Duration (hh:mm) 90:00</p> <p>Corresponding NOS Code HCS/N3102</p>	<ul style="list-style-type: none"> Decide on the appropriate application process and the suitable type of paint to be use Ensure to select the suitable primer paint based on the type of metal being painted Cover the work area with some cloth or paper to avoid spill of paint Apply the color to the prepared surface using brush, roller, spray or other similar equipments based on the requirement and surface of the metal Perform the primer coat, intermediate coat, stripe coats and finish coats as per requirements with the specified prepared paint Ensure to perform painting in a well ventilated and well lightened place Ensure to avoid humid conditions while painting as it can affect the drying of paint Ensure the appropriate room temperature is maintained in the room where painting is carried out Ensure to wear appropriate attire and take necessary eye precautions while painting Shake the paint can if using a sprayer can to paint the metal Apply the paint by dipping or spraying onto the surface Use jigs to hold the metal while painting and ensure not to drop the metal product Ensure the paint doesn't spill over Ensure to use the colors one by one and separate brushes for every color Ensure not to thick coat the paint as it becomes difficult to dry Ensure the various compositions of paints used are compatible with one another Use thinner if specified in the job sheet as per requirement Dry the paint before beginning the second coat Ensure the paint is spread evenly across the metal surface Perform sanding if smoother finish is required Dry the painted surface for the appropriate required time 	<p>Laptop, white board, marker, projector, PPTs, Handbook, Metal structures, Paint, primer, varnish, sand paper, brush, acid cleaner, PPE</p>
4	<p>Lacquer the metal surface</p> <p>Theory Duration (hh:mm) 20:00</p>	<ul style="list-style-type: none"> Take necessary safety precautions ensuring hazard free working environment Provide adequate ventilation into the room Wear appropriate attire Ensure the work place to be clean and organized Ensure the surface of the metal is dust 	<p>Laptop, white board, marker, projector, PPTs, Handbook, Metal structures, lacquerer, sand paper, brush, acid cleaner, PPE,</p>

Trainer Prerequisites for Job role: “Painter (Metal Handicrafts)” mapped to Qualification Pack: “HCS/Q3101, v1.0”

Sr. No.	Area	Details
1	Description	The individual at work is responsible to prepare the paint and apply the color paint and then lacquer on the surface of the metal. He/She decorates and protects the metal surface with a fixed color stamping on it. This hardens the metal and extends its working life preventing rust and wear out of metal.
2	Personal Attributes	The job requires the individual to have: attention to details, good eyesight, steady hands, ability to sit in same position for longer hours, patience and creativity.
3	Minimum Educational Qualifications	10 th Pass
4a	Domain Certification	Certified for Job Role: “ <u>Painter (Metal Handicrafts)</u> ” mapped to QP: “HCS/Q3101, 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"> • Total 3 Years experience, • 2 Years of sector-specific experience, • Min. 1 year of teaching experience

	PC12. ensure the surface of the metal is clean and dry, before applying the paint		5	2	3
	PC13. ensure to wear safety goggles and mask while preparing the surface		5	2	3
	PC14. remove any traces of oil, dust and grease on the surface so that it does not interrupt the paint to stay on the surface		5	2	3
	PC15. degrease using solvents or acid solution		5	2	3
	PC16. remove rust if any on the surface before the painting process		5	2	3
	PC17. ensure to de-rust using appropriate acid or solvents at appropriate room temperature		5	2	3
	PC18. perform phosphate coating at room temperature		5	2	3
	PC19. prepare the surface of the metal even and correct any imperfections		5	2	3
	PC20. rough up the surface if required		5	2	3
		Total	100	40	60
HCS/N3102 Apply paint on the metal surface	PC1. decide on the appropriate application process and the suitable type of paint to be used		3	1	2
	PC2. ensure to select the suitable primer paint based on the type of metal being painted		3	1	2
	PC3. cover the work area with some cloth or paper to avoid spill of paint		3	1	2
	PC4. apply the color to the prepared surface using brush, roller, spray or other similar equipments based on the requirement and surface of the metal		4	2	2
	PC5. perform the primer coat, intermediate coat, stripe coats and finish coats as per requirements with the specified prepared paint	100	4	2	2
	PC6. ensure to perform painting in a well ventilated and well lightened place		4	2	2
	PC7. ensure to avoid humid conditions while painting as it can affect the drying of paint		4	2	2
	PC8. ensure the appropriate room temperature is maintained in the room where painting is carried out		4	2	2
	PC9. ensure to wear appropriate attire and take necessary eye precautions while painting		4	2	2
	PC10. shake the paint can if using a sprayer can to paint the metal		3	1	2

	PC11. apply the paint by dipping or spraying onto the surface		3	1	2
	PC12. use jigs to hold the metal while painting and ensure not to drop the metal product		3	1	2
	PC13. ensure the paint doesn't spill over		4	2	2
	PC14. ensure to use the colors one by one and separate brushes for every color		4	2	2
	PC15. ensure not to thick coat the paint as it becomes difficult to dry		4	2	2
	PC16. ensure the various compositions of paints used are compatible with one another		4	2	2
	PC17. use thinner if specified in the job sheet as per requirement		4	2	2
	PC18. dry the paint before beginning the second coat		4	2	2
	PC19. ensure the paint is spread evenly across the metal surface		3	1	2
	PC20. perform sanding if smoother finish is required		4	2	2
	PC21. dry the painted surface for the appropriate required time		4	2	2
	PC22. ensure the metal completely isolate air and water contact to the metal surface		4	2	2
	PC23. ensure the coating thickness, durability, color, clarity, etc. are according to the design prescribed and to the customer or client requirement		4	2	2
	PC24. ensure a hard or smooth and glossy finish as per requirement		3	1	2
	PC25. ensure the target number of pieces are painted		4	2	2
	PC26. ensure the colour and pattern are according to the		4	2	2
	PC27. ensure the output delivered is defect free and hazard free		4	2	2
		Total	100	46	54
HCS/N3103 Lacquer the metal surface	PC1. take necessary safety precautions ensuring hazard free working environment	100	4	2	2
	PC2. provide adequate ventilation into the room		5	2	5
	PC3. wear appropriate attire		4	2	2
	PC4. ensure the work place to be clean and organized		5	2	3
	PC5. ensure the surface of the metal is dust free		5	2	3

	PC8. interact and clarify doubts on design, usage of materials & tools, quality & standards compliance, etc		5	2	3
	PC9. report in time for shortage or need of raw materials		4	1	3
	PC10. handover completed work to supervisor		4	2	2
	PC11. communicate to the colleagues from within and other departments, clearly and effectively on all aspects to carry out the work among the team		5	2	3
	PC12. maintain the etiquettes, use polite language, demonstrate responsible and disciplined behaviours to the colleagues		5	2	3
	PC13. interact with colleagues from different functions and understand the nature of their work		4	2	2
	PC14. put team over individual goals and multi task or share work where necessary supporting the colleagues		4	2	2
	PC15. resolve conflicts and ensure smooth workflow		4	1	3
	PC16. interact and understand the production requirement for the day from the previous and successive processing department and work accordingly		4	1	3
	PC17. communicate and discuss work flow related difficulties in order to find solutions with mutual agreement		4	1	3
	PC18. receive feedback from Quality Control and rework in order to complete work on time		5	1	4
	PC19. share information with colleagues to enable efficient delivery of work		6	3	3
	PC20. highlight any errors of colleagues, help to rectify and ensure quality output		4	2	2
	PC21. work with cooperation, coordination, communication and collaboration, with shared goals and supporting each others performance		4	1	3
	PC22. document all the details accurately relating to one's role as required		4	1	3
	PC23. report on the work completed and keep it in records		4	1	3
	Total		100	40	60
HCS/N9902 Maintain safe	PC1. comply with safety procedures while on work to prevent accidents	100	8	2	6

work environment	PC2. take adequate safety measures while handling materials, chemicals and tools		8	2	6
	PC3. wear appropriate personal protective gears such as gloves, protective goggles, masks etc. while working		8	2	6
	PC4. undertake basic safety checks before operation of all tools and electrical equipments		9	2	7
	PC5. wear appropriate and recommended clothing as per the work environment (eg: working in a furnace area)		9	2	7
	PC6. follow recommended material handling procedure to control material and personal damage		8	2	6
	PC7. perform all procedures as per company's work instructions for controlling operational risk		8	4	4
	PC8. perform the duties in a manner which minimizes environmental damage		6	2	4
	PC9. dispose of waste safely and correctly in a designated area as per company's SOP		8	2	6
	PC10. report any accidents, incidents or problems without delay to the supervisor and take necessary immediate action to reduce further danger		8	4	4
	PC11. ensure zero accident at workplace		10	2	8
	PC12. adhere to safety standards and ensure no material damage		10	2	8
		Total	100	28	72
HCS/N9903 Maintain personal health	PC1. always cover the mouth and nose with a dust mask while working and keep on changing when it gets blocked with dust		12	4	8
	PC2. follow work instructions strictly to reduce the amount of pollution at the work place e.g. wet the rock / craft material before working on it		10	2	8
	PC3. wear protective goggles over eyes and replace them when scratches on it obscure the vision	100	10	2	8
	PC4. wear gloves as per the materials used for making handicraft to avoid blisters; scratches and cuts		10	2	8
	PC5. undergo preventive health checkups at regular intervals		10	2	8
	PC6. take prompt treatment from the doctor in case of illness		11	3	8

	PC7. follow SOPs for dealing with blisters; scratches; accidental fires or any other type of emergencies at work		11	4	7
	PC8. ensure no productivity loss or absenteeism from work due to illness		13	3	10
	PC9. ensure no long term ill effect on the personal health		13	3	10
		Total	100	25	75
HCS/N9904 Basic business management	PC1. allot work to the employees of the unit according to their skill and experience	100	3	1	2
	PC2. train the employees of his/her unit with the appropriate skills required to make market relevant and quality products		3	1	2
	PC3. motivate the employees		2	1	1
	PC4. handle the grievances/issues that are raised by the employees		2	1	1
	PC5. manage the employee expectations		2	1	1
	PC6. gather and analyse the cues from the market		2	1	1
	PC7. ascertain the customer preference		3	1	2
	PC8. create product lines based on current market preference		3	1	2
	PC9. create product lines that are unique and able to price high		3	1	2
	PC10. price the products according to market trends		3	1	2
	PC11. decide the best way to market the product lines		3	1	2
	PC12. make a list of raw materials required according to the product lines		2	0	2
	PC13. ascertain the quantity and right price to procure the materials		3	1	2
	PC14. identify the right locations/agents from where the raw materials can be procured		3	1	2
	PC15. negotiate to get the best price		3	0	3
	PC16. ensure quality materials are procured		4	1	3
	PC17. ensure the procured materials are stored in appropriate conditions		3	1	2
	PC18. maintain the bills and record the prices of procurement for future reference		3	1	2
	PC19. maintain healthy vendor relationships		3	1	2
	PC20. identify the nearest market		3	1	2
	PC21. analyze the prevalent price for product lines		3	2	1

