

Construction Painter and Decorator - NSQF LEVEL 3

CURRICULUM / SYLLABUS – Duration: 68 Hours Bridge Course

Qualification Pack Name & Reference ID. - CON/Q0503

Aim: This program is aimed at training candidates for the job of a “Construction Painter and Decorator” in the “Construction” Sector/Industry and aims at building the following key competencies amongst the learner

Training Outcomes

After completing this programme, participants will be able to:

- Gain insight into Construction Painter and Decorator job role and its career progression: - Role of a Construction Painter and Decorator in construction industry along with the future possible career development provisions
- Apply OBD, acrylic and emulsion paints on various finished masonry surfaces:- Select and use tools, materials and equipment for application of OBD, acrylic and emulsion paints on various finished masonry surfaces
- Apply paint on metallic/ structural steel fabricated assemblies: - Select and use tools, materials and equipment for application of paints on various metallic and structural steel fabricated assemblies
- Apply, paint, varnish & polish on wooden windows, doors, partitions, panels & other wooden surfaces:-Select and use tools, materials and equipment for application of paint, varnish and polish on wooden doors, windows, partitions ,panels and other wooden surfaces
- Carry out minor repair of various painting faults: - Select and use tools, materials and equipment for carrying out minor repairs of various painting faults.
- Work effectively in a team to deliver desired results at the workplace: - Organised working procedure within a team at site.
- Plan and organize work to meet expected outcomes:- Prioritizing activities and organising resources to meet desired outcome
- Work according to personal health, safety and environment protocol at construction site: - Importance of Health & Safety aspects & measures to be followed while working at site

S.No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction Theory Duration (hh:mm) 01:00	<ul style="list-style-type: none"> • Role description/ functions of the job role • Expected personal attributes from the job role 	<hr/> Seating arrangement for 1. participants
2	Practical Duration (hh:mm) 00:00 Apply OBD, acrylic and emulsion paints on various finished masonry surfaces	development provisions on completion of the course Theory:- <ul style="list-style-type: none"> • Units of measurement • Basic principles of measurement, geometry and arithmetic calculation • Linear conversion of units • Rough estimation of paint requirement 	2. Black/White board 1. Work shop for practical assessment 2. Toilet/Urinals (Separate for gents and Ladies)

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	<p>Theory Duration (hh:mm) 2 :00 Practical Duration (hh:mm) 14 :00</p> <p>Corresponding NOS Code CON/N0505</p>	<ul style="list-style-type: none"> • Selection and use of different painting tools (such as brushes, rollers , painting bucket, stirrers, scrapers ,sand papers, putty blades, etc.) • Selection and use of different painting materials and mixing ingredients such as paint, primer, base colour, tint base, colorants, varnishes, enamel, etc. • Different type of paints such as OBD, acrylic and emulsion paints and their use. • Different types of primers and their use • Knowledge of standard specifications of all tools ,equipment and components required for painting works • Masking of adjacent area for protection against paint splatter and damage prior to painting • Mixing and proportioning of paints as per specified ratios • Different type of reducers and thinners for adjusting viscosity of paints • Knowledge about adjusting the viscosity of paints • Knowledge about application of primer as per requirement • Various types of adhesives used for binding coats of paint such as oil, turpentine etc. • Various methods of surface preparation including mildew remover, sand rough spots or other preparations. • Different type of putties and their application • Process of application of putty • Demonstration/ Practical : - • Demonstrate the checks to be carried out for visual inspection of area prior to painting • Ensure surface is free from dust, dirt and grease and is prepared appropriately prior to application of paints. • Demonstrate application of putty to fill gaps/depressions on the masonry surface to be painted • Demonstrate selection of base colour and other colourants suitable for colour match • Demonstrate application of final coat to main coat applied masonry surface 	<ol style="list-style-type: none"> 3. Tool box with lock and key 4. Measuring tape/rule, 5. Ladder 6. Measuring tape 7. Scale 8. Square 8. Water level tube 9. Spirit level 10. Plumb bob 11. Rollers 12. Brushes 13. Paint bucket 14. Sponges 15. Dusting brush 16. Tack rags 17. Paint stirrers 18. Sand paper 19. Masking tape 20. Wall scrappers 21. Scraper 22. Putty knife 23. Chisel knife 24. Knotting brush 25. Nail punch, 26. Hammer 27. Dusting brush 28. Dust masks 29. Wire brushes 30. Goggles 31. Filling knife 32. Filling board 33. Painting edger <p>PPE'S</p> <ol style="list-style-type: none"> 1. Safety helmets 2. Hand gloves 3. Safety shoes 4. Safety harness 5. Nose mask 6. Overalls Knee pad 7. Reflective jackets 8. Pencil
<p>3.</p>	<p>Apply paint on metallic / structural steel fabricated assemblies</p> <p>Theory Duration (hh:mm) 2:00</p> <p>Practical Duration (hh:mm) 11:00</p> <p>Corresponding NOS Code CON/N0506</p>	<p>Theory:-</p> <ul style="list-style-type: none"> • Simple sketches related to painting works. • Basic principles of measurement, geometry and arithmetic calculation • Selection and use of different painting tools • Different type of paints use don metallic surface. • Different types of primers and their use • Knowledge of standard specifications of all tools, equipment and components required for painting works • Masking of adjacent area for protection against paint splatter and damage prior to painting 	<ol style="list-style-type: none"> 1. Work shop for practical assessment 2. Toilet/Urinals (Separate for gents and Ladies) 3. Tool box with lock and key 4. Measuring tape/rule, 5. Ladder 6. Measuring Tape 7. Scale 8. Square

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		<ul style="list-style-type: none"> Mixing and proportioning of paints as per specified ratios Different type of reducers and thinners for adjusting viscosity of paints Knowledge about adjusting the viscosity of paints Various types of adhesives used for binding coats of paint such as oil, turpentine etc. Various methods of surface preparation including mildew remover, sand rough spots or other preparations. Process of setting up and operating rotary or impact power tools for preparation of metallic surface prior to painting Importance of preventing the formation of burrs, sharp ridges and sharp cuts Different types of welding defects such as flux, weld spatter and surface defects etc Ways to hide the welding defects while painting Process of carrying out proper cleaning of all bolts, nuts, welds, and field rivet heads Process of application of different type of primers such as zinc – chromate primer, farrow and ball metal primer Time gap between application of two coats of primer/paints <p>Demonstration/ Practical :-</p> <ul style="list-style-type: none"> Demonstrate reading of sketches and interpretation of information for painting works Demonstrate the visual checks to be carried out for inspection of surface prior to painting Ensure the removal of all loose mill scale, loose rust, loose paint and other loose detrimental foreign matter prior to application of paint. Demonstrate use of power tools to remove rust (rust scale), weld slag, flux and weld spatter etc. Demonstrate selection of base colour and other colourants suitable for colour match Demonstrate mixing of specified amount of paint material with additives as per specified ratio Demonstrate effective mixing and dilution of paints and adjustment of viscosity as per standard procedure Demonstrate application of primer coat to finishes/levelled fabricated/structural steel assembly. Demonstrate application of appropriate primer coat for rusted metal surface Demonstrate application of subsequent coat of paint to primer applied surface upon drying of primer coat 	<ol style="list-style-type: none"> Water level tube Spirit level Plumb bob Rollers Brushes Paint bucket Sponges Dusting brush Tack rags Paint stirrers Sand paper Masking tape Wall scrappers Scraper, Putty knife Chisel knife Knotting brush Nail punch Hammer Dusting brush Dust masks Wire brushes Goggles Filling knife Filling board Painting edger Rotary /impact power tools <p>PPE'S</p> <ol style="list-style-type: none"> Safety helmets Hand gloves Safety shoes Safety harness Nose mask Overalls Knee pad Reflective jackets Pencil
4	Apply, paint, varnish & polish on wooden windows, doors,	<p>Theory:-</p> <ul style="list-style-type: none"> Simple sketches related to painting works Basic principles of measurement, geometry and arithmetic calculation 	<ol style="list-style-type: none"> Work shop for practical assessment

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<p>partitions, panels & other wooden surfaces</p> <p>Theory Duration (hh:mm) 2:00</p> <p>Practical Duration (hh:mm) 11:00</p> <p>Corresponding NOS Code CON/N0507</p>	<ul style="list-style-type: none"> • Rough estimation of paint requirement • Selection and use of different painting tools such as brushes, rollers, painting bucket, stirrers, scrapers, sand papers, putty blades, etc. • Different type of painting related ingredients such as paint, stain, lacquer, shellac, or varnish, etc and their use. • Different types of primers and their use • Knowledge of standard specifications of all tools , equipment and components required for painting works • Masking of adjacent area for protection against paint splatter and damage prior to painting • Mixing and proportioning of paints as per specified ratios • Different type of reducers and thinners for adjusting viscosity of paints • Knowledge about adjusting the viscosity of paints • Various types of adhesives used for binding coats of paint such as oil, turpentine etc. • Importance of applying bleaching agents on wood surface <p>Demonstration/ Practical : -</p> <ul style="list-style-type: none"> • Demonstrate the visual checks to be carried out for physical inspection of surface for suitability • Ensure surface is free of all loose & detrimental foreign matter prior to application of paints. • Demonstrate application of bleaching agents to wood surface for restoration of natural colour of wood. • Demonstrate treating of warped or stained surfaces as per specification to restore original contours and colours • Demonstrate application of appropriate wood fillers to fill gaps/depressions on the surface to be painted • Demonstrate preparation of a smooth and levelled surface for painting by sanding and shaping using sandpaper, pumice stones, steel wool, chisels, sanders, or grinders • Demonstrate masking/covering of all adjacent surfaces and removing of fixtures prior to painting. • Demonstrate selection of painting material and mixing ingredients such as paint, stain, lacquer, shellac, or varnish as per specification/instructions and as per requirement /specified finish • Demonstrate selection of colourants suitable for colour match • Demonstrate mixing of specified amount of paint material with additives as per specified ratio 	<ol style="list-style-type: none"> 2. Toilet/Urinals (Separate for gents and Ladies) 3. Tool box with lock and key 4. Measuring tape/rule, 5. Ladder 6. Measuring Tape 7. Scale 8. Square 9. Water level tube 10. Spirit level 11. Plumb bob 12. Rollers 13. Brushes 14. Paint bucket 15. Sponges 16. Dusting brush 17. Tack rags 18. Paint stirrers 19. Sand paper 20. Masking tape 21. Wall scrappers 22. Scraper, 23. Putty knife 24. Chisel knife 25. Knotting brush 26. Nail punch 27. Hammer 28. Dusting brush 29. Dust masks 30. Wire brushes 31. Goggles 32. Filling knife 33. Filling board 34. Painting edger 35. Rotary /impact power tools <p>PPE'S</p> <ol style="list-style-type: none"> 1. Safety helmets 2. Hand gloves 3. Safety shoes 4. Safety harness 5. Nose mask 6. Overalls Knee pad 7. Reflective jackets 8. Pencil
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		<ul style="list-style-type: none"> • Demonstrate effective mixing and dilution of paints and adjustment of viscosity as per standard procedure. • Demonstrate application of lacquer or other sealers as per specification • Demonstrate polishing of the varnished surface using steel wool, pumice, rotten stone or other materials, depending on the shine desired/specified 	
5.	<p>Carry out minor repair of various painting faults</p> <p>Theory Duration (hh:mm) 1:00</p> <p>Practical Duration (hh:mm) 4:00</p> <p>Corresponding NOS Code CON/N0510</p>	<p>Theory:-</p> <ul style="list-style-type: none"> • Selection and use of different painting tools (such as brushes, rollers, painting bucket, stirrers, scrapers, sand papers, putty blades, etc.) • Different type of paints such as OBD, acrylic and emulsion paints and their use. • Different types of primers and their use • Knowledge of standard specifications of all tools, equipment and components required for painting works • Masking of adjacent area for protection against paint splatter and damage prior to painting • Mixing and proportioning of paints as per specified ratios • Different type of reducers and thinners for adjusting viscosity of paints • Knowledge about adjusting the viscosity of paints • Various types of adhesives used for binding coats of paint such as oil, turpentine etc. • Different types of defects associated with painting works like Orange peel, blushing, fade, spotting and water marks, discoloration, chalking, cracks, seeds, runs, fish eye(beads), blemished metallic finish, pin holes, abrasive marks, peeling, putty marks ,blisters and shrinkage. Different types of remedial actions required for rectification of defects such as polishing with appropriate compounds, flattening with whetstone, stripping of paint and reapplication of putty and paint <p><u>Demonstration/ Practical : -</u></p> <ul style="list-style-type: none"> • Demonstrate the visual checks to be carried out for physical inspection of surface for defects • Diagnose the painting problem and identify defects such as Orange peel, blushing, fade, spotting and water marks, discoloration, chalking, cracks, seeds, runs, Fish eyes (beads), blemished metallic finish, pin holes, abrasive marks peeling, putty marks, blisters & shrinkage • Demonstrate the rectification of common defects like orange peel, blushing, fade, spotting and water marks, discoloration, chalking, cracks, seed, runs etc. by polishing with appropriate compounds. 	<ol style="list-style-type: none"> 1. Work shop for practical assessment 2. Toilet/Urinals (Separate for gents and Ladies) 3. Tool box with lock and key 4. Measuring tape/rule, 5. Ladder 6. Measuring Tape 9. Water level tube 10. Spirit level 11. Plumb bob 12. Rollers 13. Brushes 14. Paint bucket 15. Sponges 16. Dusting brush 17. Tack rags 18. Paint stirrers 19. Sand paper 20. Masking tape 21. Wall scrappers 22. Scraper, 23. Putty knife 24. Chisel knife 25. Knotting brush 26. Nail punch 27. Hammer 28. Dusting brush 29. Dust masks 30. Wire brushes 31. Goggles 32. Filling knife 33. Filling board 34. Painting edger 35. Rotary /impact power tools <p>PPE'S</p> <ol style="list-style-type: none"> 1. Safety helmets 2. Hand gloves

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		<ul style="list-style-type: none"> • Demonstrate the rectification of common defects like Fish eyes (beads), blemished metallic finish, pin holes, abrasive marks, peeling etc. by flattening out the defects using whetstone and application of top coat of paint. • Demonstrate the rectification of common defects like putty marks and shrinkage, by flattening out the defects using whetstone and application of appropriate primer and top coat of paint. • Demonstrate the rectification of common defects like blisters, cracks and shrinkage, by stripping out the paint and subsequent application of putty and paint 	<ol style="list-style-type: none"> 3. Safety shoes 4. Safety harness 5. Nose mask 6. Overalls Knee pad 7. Reflective jackets 8. Pencil
6.	<p>Work effectively in a team to deliver desired results at the workplace</p> <p>Theory Duration (hh:mm) 01:00</p> <p>Practical Duration (hh:mm) 4:00 Corresponding NOS Code CON/N8001</p>	<p>Theory:-</p> <ul style="list-style-type: none"> • Method of oral and written communication skills with co-workers, trade seniors while handling and carrying out visual checks on materials, , tools and equipment • How to interpret scope of painting works for masonry, metal and wooden surfaces including handling of tools by adhering to instructions or consulting with seniors • Method of providing instruction to subordinates or reporting to seniors clearly and promptly • Seek necessary support and complete assigned tasks within stipulated time duration • Keep good relation and maintain well behaviour with co-workers <p><u>Demonstration/Practical :-</u></p> <ul style="list-style-type: none"> • The skills will be developed and practiced while carrying out following trade related activities in a predictable and familiar working condition • Selection of materials, tools or devices for defined purpose under painting works and providing instructions to subordinates for the same. • Handling of tools, equipment and materials for painting on metal /fabricated assemblies including efficiently communicating with co-workers for desired requirement as per specification • Carrying out minor repair in painting works while working as a team to ensure optimum utilization of material and resources • Carrying out general painting works utilizing the effort of co-workers. • Undertaking visual checks to assess the quality of material and surface prior to painting works • Selection and handing over of desired/ appropriate tools/ materials while assisting trade senior 	<ol style="list-style-type: none"> 1. Classroom having seating requirement for 35 people. 2. Toilet/Urinals (Separate for gents and Ladies) 3. Projector Blackboard
7.	<p>Plan and organize work to meet expected outcomes</p>	<p>Theory:-</p> <ul style="list-style-type: none"> • To plan painting activities within defined scope of work 	<ol style="list-style-type: none"> 1. Classroom having seating requirement for 30 people. 2. Toilet/Urinals

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	<p>Theory Duration (hh:mm) 01:00</p> <p>Practical Duration (hh:mm) 4:00</p> <p>Corresponding NOS Code CON/N8002</p>	<ul style="list-style-type: none"> • Basic concept of productivity, sequence of working and implementation of safety and organizational norms while working • Upkeep, storing and stacking methods of tools, materials used for domain specific works • Requisition of resources, reporting for requirement of resources orally and in written to concerned authority - (T/P) <p>Demonstration/ Practical :-</p> <ul style="list-style-type: none"> • The skills will be developed and practiced while carrying out following trade related activities in a predictable and familiar working condition • Selection of materials, tools or devices for defined purpose in an optimum manner Handling/organizing painting tools, material, fixtures and device for painting on masonry, metal and wooden assemblies. • Planning painting and repair works on painted surfaces as per scope and schedule. • Carrying out painting works of metal/fabricated assemblies by optimum utilisation of material and resources • Optimum use of resources while performing task • Adherence to stipulated timelines for completion of painting activities/ tasks 	<p>(Separate for gents and Ladies) 3. Projector Blackboard</p>
8	<p>Work according to personal health, safety and environment protocol at construction site</p> <p>Theory Duration (hh:mm) 02:00</p> <p>Practical Duration (hh:mm) 08:00</p> <p>Corresponding NOS Code CON/N9001</p>	<p>Theory: -</p> <ul style="list-style-type: none"> • Types of hazards involved in construction site • Types of hazards involved in painting works • Types of hazards related to painting materials • Emergency safety control measures and actions to be taken under emergency situation • Concept of :- • First Aid process • Use of fire extinguisher • Classification of fires and fire extinguisher 4. Safety drills • Types and use of PPEs as per general safety norms • Reporting procedure to the concerned authority in emergency situations • Standard procedure of handling, storing and stacking material, tools and accessories • What is safe disposal of waste, type of waste and their disposal • Type of painting tools, their standards and area of application • Basic ergonomic principles as per applicability <p>Demonstration/ Practical: -</p> <ul style="list-style-type: none"> • The skills will be developed and practiced while carrying out following trade related activities in a predictable and familiar working condition • Selection of PPEs and use them appropriately as per working need of painting operations 	<ol style="list-style-type: none"> 1. Safety Helmets 2. Face shield 3. Overalls 4. Knee pads 5. Safety shoes 6. Safety belts 7. Safety harness 8. Safety Gloves 9. Safety goggles 10. Particle masks 11. Ear Plugs 12. Reflective jackets 13. Fire Extinguisher 14. Fire prevention kit 15. First Aid box 16. Safety tags 17. Safety Notice board

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		<ul style="list-style-type: none"> • Analysis of hazards involved in painting at heights and in precast elements or informing to seniors regarding hazardous conditions • Identification of locations, situations/ circumstances, malpractices which can be hazardous for works • Selection of fire extinguisher based on classification of fire, standard practice of storing & stacking firefighting equipment/ materials at work locations • Disposal of waste materials as per their nature and effects on weather 	
	<p>Total Duration 68:00 hrs</p> <p>Theory Duration 12:00 hrs</p> <p>Practical Duration 56:00 hrs</p>	<p>Measuring tape/rule, Ladder, Scale, Square, Water level tube ,Spirit level, Plumb bob, Rollers, Brushes, paint bucket, sponges, dusting brush, tack rags, paint stirrers, sand paper, masking tape , wall scrappers, scraper, putty knife ,chisel knife, knotting brush, nail punch, Hammer, dusting brush, dust masks, wire brushes, goggles, filling knife, filling board, Painting edger, Sanders/grinders Safety helmets, Hand gloves, Safety shoes, Safety harness, Nose mask, Overalls, Knee pad, Reflective jackets, Pencil Infrastructure Class room for theory and assessment with 35 study chairs , Workshop for training and practical assessment, Masonry wall (For painting), Toilet/Urinals (Separate for gents and Ladies), 3 phase power supply points , Single phase power supply points, Fire extinguishers (mechanical foam, DCP, CO2 and sand buckets with stand), First aid kit, Tool box with lock and key</p>	

Grand Total Course Duration: 68 Hours 0 Minutes