Model Curriculum

Helper Construction Painter

SECTOR: Construction
SUB-SECTOR: Real Estate and Infrastructure Construction
OCCUPATION: CONSTRUCTION PAINTING
REF ID: CON/Q0501, V2.0
NSQF LEVEL: 2

Skill India

N·S·D·C National Skill Development Corporation

Transforming the skill landscape

Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

CONSTRUCTION SKILL DEVELOPMENT COUNCIL OF INDIA

for the

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/ Qualification Pack: '**Helper Construction Painter**' QP No. '**CON/ Q 0501, V2.0 NSQF Level 2**'

Date of Issuance: **August 16th, 2019**

Valid up to: **July 24th, 2023***

Valid up to the next review date of the Qualification Pack

Authorised Signatory
(Construction Skill Development Council of India)

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Helper Construction Painter

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "Helper Construction Painter", in the "Construction" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Helper Construction Painter		
Qualification Pack Name and Reference ID. ID	CON/Q0501, V2.0		
Version No.	2.0	Version Update Date	04-03-2020
Pre-requisites to Training	NIL		
Training Outcomes	**After completing this programme, participants will be able to:** • Identify basic tools, equipment, paints and painting related materials, and demonstrate how to store, handle and use them. • Carry out preparation of all type of basic surface for painting works. • Carry out erection and dismantling of temporary scaffold up to 3.6 m height. • Follow safety norms as defined by the organisation, adopt healthy and safe work practices.		

This course encompasses 4 out of 4 National Occupational Standards (NOS) of "Helper Construction Painter" Qualification Pack issued by "Construction Skill Development Council of India".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	**Introduction to construction painting occupation** **Theory Duration** (hh:mm) 08:00 **Practical Duration** (hh:mm) 00:00 **Corresponding NOS Code** Bridge Module	• Describe the role and responsibilities of a helper construction painter • Recall the basic terms used in the occupation of the construction painter • Discuss the career progression options of a helper construction painter	
2	**Identify, handle, store and use basic tools, equipment and paints and related painting materials** **Theory Duration** (hh:mm) 14:00 **Practical Duration** (hh:mm) 78:00 **Corresponding NOS Code** CON/N0501	• List out standard size and type of different painting tools • Describe the care and maintenance techniques of various tools • Identify basic painting equipment such as ladder, step scaffolding, trestle, buckets etc. • Recall basic terminology used in painting works • List out basic leveling devices like plumb bob, spirit level, water level and straight edge, and explain their use • Classify painting materials and tools as per their application and compositions • Explain indent procedure and its importance. • Interpret safety rules and regulations for handling and storing required painting tools, equipment and materials • Demonstrate various techniques/ procedures for basic material handling and storage • Demonstrate arranging and shifting of construction material on the construction site safely and effectively • Demonstrate the procedure to dispose waste material safely in accordance with environmental norms, organizational procedures, manufacturers' guidelines, statutory regulations and instructions • Demonstrate methods to use and care paints and painting material such as brushes of various sizes, rollers, diamond glazier, stopping knife, scrapers, pallet knife, chisel knife, shave hook, plumb line, lining tool, rule file etc.	• Measuring tape/ rule, • Ladder • Step scaffolding • Trestle • Water level • 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 • Safety helmets • Hand gloves • Safety shoes

		• Demonstrate techniques for lifting and shifting of materials and tools • Demonstrate procedure of loading and unloading of materials used for painting work • Demonstrate procedure to maintain and store painting materials • Demonstrate safe handling technique followed while transferring fluid materials like chemicals, turpentine oil, spirit etc. at the workplace • Demonstrate procedure to return surplus materials to the store as per company norms • Plan to maintain safe and clean workspace while moving and storing materials	• Safety harness • Nose mask
3	**Carry out Preparation of all type of basic surface for painting works** **Theory Duration** (hh:mm) 20:00 **Practical Duration** (hh:mm) 84:00 **Corresponding NOS Code** CON/N0502	• List and explain the functions of different types of materials, tools, abrasives, cleaning agents required for surface preparation • Describe the methodology for preparation of different surfaces like masonry, RCC, wood and metal by wet and dry abrading, degreasing, knotting, priming, filling, rust removal of paint system and removal of wall coverings • Explain type and use of filler materials • Recall the ratio of mix proportions and painting material used in preparation of surfaces • Demonstrate visual assessment methodology and analysis of surface preparation methods • Prepare prime for application as base coat. • Apply prime coat by brush or spray. • Demonstrate process of filling, leveling, flattening, scaling on the surface to obtain finished surface.	• Measuring tape/rule, • Ladder • Step scaffolding • Trestle • Water level • 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 • Safety helmets • Hand gloves • Safety shoes • Safety harness • Nose mask

4	**Erect and dismantle temporary scaffold up to 3.6-meter height** **Theory Duration** (hh:mm) 12:00 **Practical Duration** (hh:mm) 36:00 **Corresponding NOS Code** CON/N0101	• Explain scaffolding and its purpose • List the common materials and tools used for erection of scaffolding (pipe, cup lock (vertical and ledgers), H- frames, bamboo and balli • List the functions of different hand tools like hammer, spanner, pulleys, hooks, ropes, etc., used for erection/ dismantling of scaffolds • List the visual checks to be carried out on the scaffolding components to ascertain their usability • Identify different components of a temporary scaffolding (such as base, toe board, guard rails, platform, walkways, ladder) • Explain the functions of materials, components and accessories used in scaffolding • Prepare a scaffolding base and erect scaffolds up to 3.6 m height using pipes and couplers/ cup lock system/ H frame using appropriate hand tools • Explain the methods adopted during the erection of the scaffold to ensure its safety • Demonstrate various checks to be done on completion of erection of scaffolds (such as verticality, stability and rigidity check) • Identify the different components (with specifications) of the erected scaffold with its function/ use. • Demonstrate the sequence and standard procedure to dismantle the whole scaffold and stack their components	• Hammer • Spanner (set) • Wrench • Pulley • Rope • Nuts and bolts • Measuring tape • Spirit level • Plumb-bob • Mason's line • Cup-lock scaffolding components (set) • 40 NB pipes • Swivel coupler • Fixed clamp • Steel walers • Steel walkways • Aluminum/ GI ladder • Safety net • Helmet • Safety shoes • Safety belt • Cotton hand gloves • Goggles • Reflective jackets • Safety message boards
5	**Work according to Health, Safety and Environment** **Theory Duration** (hh:mm) 12:00 **Practical Duration** (hh:mm) 36:00 **Corresponding NOS Code** CON/N9001	• Explain the types of hazards at the construction sites and identify the hazards specific to the construction painting work • Recall the safety control measures and actions to be taken under emergency situation • Explain the classes of fire and types of fire extinguishers • Demonstrate the operation of fire extinguisher • Demonstrate different methods involved in providing First aid to the affected person. • Explain the importance of participation of workers in safety drills • Demonstrate the use of all Personal Protective Equipment (PPE) like helmet, safety shoe, safety belt, safe jackets and other safety equipment relevant to painter work requirement • Explain the reporting procedure to the concerned authority in case of emergency situations • Describe the standard procedure for handling, storing and stacking of material, tools, equipment and accessories	• Safety Helmets • Face shield • Overalls • Knee pads • Safety shoes • Safety belts • Safety harness • Safety Gloves • Safety goggles • Particle masks • Ear Plugs • Reflective jackets • Fire Extinguisher • Fire prevention kit • First Aid box • Safety tags • Safety Notice board

		• Explain different types of waste and their disposal method, which are general to the construction sites • Explain the purpose and importance of vertigo test at construction site • Demonstrate vertigo test • List out basic medical tests required for working at construction Site • Explain the types and benefits of basic ergonomic principles, which should be adopted while carrying out specific task at the construction sites • Explain the importance of housekeeping • Demonstrate housekeeping practice followed after painter works	
	Total Duration **Theory Duration** **66 hours** **Practical Duration** **234 hours**	**Unique Equipment Required:** Classroom having seating requirement for 30 people, Toilet/Urinals (Separate for gents and Ladies), Projector, Blackboard, Work shop for practical assessment, Tool box with lock and key, measuring tape/rule, ladder, 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, Spray Gun, Painting edger, water level pipe, plumb bob, spirit level, Safety Helmets, Face shield, Overalls, Knee pads, Safety shoes, Safety belts, Safety harness, Safety Gloves, Safety goggles, Particle masks, Ear Plugs, Reflective jackets, Fire Extinguisher, Fire prevention kit, First Aid box, Safety tags, Safety Notice board, Hammer, Spanner (set), Wrench, Pulley, Rope, Nuts and bolts **Classroom aids (for 30 students):** Black/White board, marker, Projector/LED Monitor, Computer, Trade specific charts, Safety tags, Safety Notice board, registers and other teaching aids.	

Grand Total Course Duration: **300 Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by ***Construction Skill Development Council of India)***

Trainer Prerequisites for Job role: "Helper Construction Painter" mapped to Qualification Pack: "CON/Q0501, Version 2.0"

Sr. No.	Area	Details
1	**Description**	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack "CON/Q0501,Version 2.0".
2	**Personal Attributes**	Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field
3	**Minimum Educational Qualifications**	ITI/12th
4a	**Domain Certification**	Certified for the job role "Helper Construction Painter" mapped to QP: "CON/Q0501,Version 2.0" Minimum accepted score is 80%
4b	**Platform Certification**	Certified for the job role "Trainer" mapped to QP: "MEP/Q2601" Minimum accepted score is 80%
5	**Experience**	i. Technical Degree holder with minimum three years of Field experience and preferably two years of teaching experience or, ii. In case of a Diploma Holder five years of field experience and preferably two years of teaching experience or, iii. In case of ITI/12th pass minimum eight years of field experience and preferably two years of teaching Experience.

Note: For the Assessment Criteria please refer to the QP PDF