Model Curriculum

Construction Painter and Decorator

SECTOR: Construction
SUB-SECTOR: Real Estate and Infrastructure Construction
OCCUPATION: CONSTRUCTION PAINTING
REF ID: CON/Q0503, Version 2.0
NSQF LEVEL: 4
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: ‘Construction Painter & Decorator’ OP No. ‘CON/ Q.003, V2.0 NSQF Level 4’

Date of issuance: August 16th, 2013
Valid up to: July 14th, 2015
*Valid up to the next review date of the Qualification Pack

Authorized Signatory
(Construction Skill Development Council of India)
# TABLE OF CONTENTS

1. Curriculum .......................... 01  
2. Trainer Prerequisites ................. 08  
3. Annexure: Assessment Criteria ....... 08
Construction Painter and Decorator

CURRICULUM / SYLLABUS

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.

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Construction Painter and Decorator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification Pack Name &amp; Reference ID. ID</td>
<td>CON/Q0503 Version 2.0</td>
</tr>
<tr>
<td>Version No.</td>
<td>2.0</td>
</tr>
<tr>
<td>Version Update Date</td>
<td>24-09-2019</td>
</tr>
<tr>
<td>Pre-requisites to Training</td>
<td>Nil</td>
</tr>
<tr>
<td>Training Outcomes</td>
<td>After completing this programme, participants will be able to:</td>
</tr>
<tr>
<td></td>
<td>• Apply Oil Bound Distemper (OBD), acrylic and emulsion paints on various finished masonry surface</td>
</tr>
<tr>
<td></td>
<td>• Apply paint on metallic/structural steel fabricated assemblies</td>
</tr>
<tr>
<td></td>
<td>• Apply paint, varnish &amp; polish on wooden windows, doors, partitions, panels &amp; other wooden surfaces</td>
</tr>
<tr>
<td></td>
<td>• Carry out minor repair of various painting faults</td>
</tr>
<tr>
<td></td>
<td>• Work effectively in a team to deliver desired results at the workplace</td>
</tr>
<tr>
<td></td>
<td>• Plan and organize work to meet expected outcomes</td>
</tr>
<tr>
<td></td>
<td>• Work according to personal health, safety and environment protocol at construction site</td>
</tr>
</tbody>
</table>
This course encompasses 7 out of 7 National Occupational Standards (NOS) of “Construction Painter and Decorator” Qualification Pack issued by “Construction Skill Development Council of India”.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Module</th>
<th>Key Learning Outcomes</th>
<th>Equipment Required</th>
</tr>
</thead>
</table>
| 1       | Introduction to painting occupation | • Explain role and responsibilities of construction painter and decorator  
          | Theory Duration  | • Explain expected personal attributes required from this job role  
          | (hh:mm)         | • Explain about course content, mode of learning and duration of course  
          | 08:00           | • Discuss future possible progression and career options for construction painter and decorator  
          | Practical Duration | | |
|         | 00:00 | | |
| 2       | Apply Oil Bound Distemper (OBD), acrylic and emulsion paints on various finished masonry surfaces | • Apply the basic principles of measurement, geometry and arithmetic calculation relevant to painting work  
          | Theory Duration | • Interpret sketches and working drawings for painting works  
          | (hh:mm)        | • Roughly estimate paint requirement by measuring the surface  
          | 24:00          | • List different painting tools (such as brushes, rollers, painting bucket, stirrers, scrapers, sand papers, putty blades, etc.)  
          | Practical Duration | • Describe various methods of surface preparation  
          | (hh:mm)        | • Describe the checks to be carried out for visual inspection of area prior to and after the painting work  
          | 70:00          | • Demonstrate mixing of different painting materials and mixing ingredients (such as paint, primer, base colour, tint base, colorants, varnishes, enamel, etc.)  
          | Corresponding NOS Code | • Demonstrate the application of primer coat and final coat using OBD, acrylic and emulsion paint as per specification  
          | CON/N0505      | • Demonstrate application of tackifier solvents for recoat work  
          | | • Demonstrate the various checks conducted prior to, during and after painting works to ensure its quality  
          | | • Demonstrate cleaning of surface of each dried coat appropriately before application of the subsequent coat  
          | | • Tool box with lock and key  
          | | • Measuring tape/rule,  
          | | • Ladder  
          | | • Measuring tape  
          | | • 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 scrapers  
          | | • scraper,  
          | | • putty knife  
          | | • chisel knife  
          | | • knotting brush  
          | | • nail punch,  
          | | • Hammer  
          | | • dusting brush  
          | | • dust masks  
          | | • wire brushes  
          | | • goggles  
          | | • filling knife  
          | | • filling board  
          | | • Painting edger  
          | | • Safety helmets  
          | | • Hand gloves  
<pre><code>      |
</code></pre>
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Module</th>
<th>Key Learning Outcomes</th>
<th>Equipment Required</th>
</tr>
</thead>
</table>
| 3       | Apply paint on metallic / structural steel fabricated assemblies | - Explain simple sketches related to metallic/structural painting works  
- Roughly estimate paint requirement by measuring the surface  
- List different painting tools  
- Select different painting materials and mixing ingredients  
- Demonstrate mixing of different painting materials and mixing ingredients such as paint, primer, base colour, tint base, colorants, varnishes, enamel  
- Describe the visual checks to be carried out for inspection of surface prior to painting  
- Demonstrate various visual checks to be carried out for inspection of surface prior to painting  
- Demonstrate use of power tools to remove rust (rust scale), weld slag, flux and weld spatter  
- Demonstrate base surface preparation for metal surface before painting  
- Select base colour and other colourants suitable for colour match  
- Demonstrate mixing of specified amount of paint material with additives as per specified ratio  
- Demonstrate process for effective mixing and dilution of paints and adjustment of viscosity as per standard procedure  
- Perform application of primer coat to finishes/levelled fabricated/structural steel assembly with uniform thickness and as per specifications  
- Perform application of appropriate primer coat for rusted metal surfaces | - Work shop for practical assessment  
- Toilet/Urinals (Separate for gents and Ladies)  
- Tool box with lock and key  
- Measuring tape/rule, ladder, measuring tape  
- 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 scrapers  
- Scrapers, putty scrapers, filling knife  
- Knotting brush, nail punch, chisel knife, filling knife  
- Scissors, dust masks, wire brushes  
- Goggles, filling board, painting edger |
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Module</th>
<th>Key Learning Outcomes</th>
<th>Equipment Required</th>
</tr>
</thead>
</table>
| 4      | Apply, paint, varnish & polish on wooden windows, doors, partitions, panels & other wooden surfaces | • Calculate the amount of paint, varnish and other painting materials required for painting work  
• Explain standard specifications of all tools, equipment and components required for painting work  
• Describe various defects seen on wooden material and methods adopted for rectification prior to painting  
• Perform the visual checks to be carried out for physical inspection of surface for suitability  
• Discuss the process of base surface preparation for the wooden surface (such as application of bleaching agent, treating of warped or strained surface, use of fillers, sandpapers, grinder and so on)  
• Demonstrate the preparation of base surface preparation of the wooden surface using suitable method.  
• Discuss the methods to prepare paint and varnish using various constituents as per specification  
• Demonstrate the method for application of wood fillers and putty on the required wooden surface  
• Demonstrate the method for application of primer coat/ paint/ varnish/ polish on the required wooden surface.  
• Demonstrate application of lacquer or other sealers as per specification | • Measuring tape/rule  
• Ladder  
• Measuring tape  
• 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/grinder  
• Safety helmets  
• Hand gloves  
• Safety shoes |

Theory Duration  
(hh:mm)  
24:00

Practical Duration  
(hh:mm)  
58:00

Corresponding NOS Code  
CON/N0507

Construction Painter and Decorator
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Module</th>
<th>Key Learning Outcomes</th>
<th>Equipment Required</th>
</tr>
</thead>
</table>
| 5      | Carry out minor repair of various painting faults | - Discuss the various checks to detect natural defects/ painting defects with respective remedial action.  
- Demonstrate the various checks to detect natural defects/ painting defects with respective remedial action.  
- Identify common painting defect (orange peel, blushing, fading, spotting and water marks, discoloration, chalking, cracks, seeds, runs, fish eyes/ beads, blemished metallic finish, pin holes, abrasive marks, peeling, putty marks, blisters and shrinkage)  
- Demonstrate the method to polish/ rectify the defects with appropriate compound.  
- Demonstrate stripping and applying of putty and paint.  
- Demonstrate the various methods to flatten the defects and provide suitable remedy | - Measuring tape/rule  
- Ladder  
- Measuring tape  
- 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 scrapers  
- scraper,  
- putty knife  
- chisel knife  
- knotting brush  
- nail punch,  
- Hammer  
- dusting brush  
- dust masks  
- wire brushes  
- goggles  
- filling knife  
- filling board  
- Painting edger  
- Safety helmets  
- Hand gloves  
- Safety shoes  
- Safety harness  
- Nose mask  
- Overalls Knee pad  
- Reflective jackets  
- Pencil |
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Module</th>
<th>Key Learning Outcomes</th>
<th>Equipment Required</th>
</tr>
</thead>
</table>
| 6      | Work effectively in a team to deliver desired results at the workplace | • Demonstrate effective communication skills while interacting with co-workers, trade seniors and others during the assigned task.  
• Interpret work sketches, formats, permits, protocols, checklists and other work-related requirements which are to be conveyed to other team members  
• Demonstrate effective reporting to seniors as per applicable organisational norms.  
• Explain effects and benefits of timely actions relevant to painting and decoration work  
• Explain importance of team work and its effects relevant to painting and decoration work.  
• Demonstrate team work skills during assigned task.  | 
|        | Theory Duration (hh:mm) 8:00                                             |                                                                 |                     |
|        | Practical Duration (hh:mm) 16:00                                        |                                                                 |                     |
|        | Corresponding NOS Code  
CON/N8001                                                                             |                                                                 |                     |
| 7      | Plan and organize work to meet expected outcomes                        | • Explain how to plan painting activities within defined scope and duration  
• Explain basic concept of productivity and sequence of working  
• Carry out implementation of safety and organizational norms while working  
• Explain requisition of resources, reporting for requirement of resources orally and in written to concerned authority  
• Demonstrate requisition of resource citing an example  
• Demonstrate oral/ written reporting procedure to senior  
• Demonstrate how to handle and organize painting tools, material, fixtures and devices for painting work.  
• Demonstrate how to prioritize all works/ activities  
• Demonstrate optimum utilization of resources citing an example  | 
|        | Theory Duration (hh:mm) 08:00                                           |                                                                 |                     |
|        | Practical Duration (hh:mm) 16:00                                        |                                                                 |                     |
|        | Corresponding NOS Code  
CON/N8002                                                                             |                                                                 |                     |
| 8      | Work according to personal health, safety and environment protocol at construction site | • Explain the types of hazards at the construction sites  
• Identify the hazards specific to the painting and decoration 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.  |  
|        | Theory Duration (hh:mm) 12:00                                           |                                                                 |                     |
|        | Practical Duration (hh:mm) 24:00                                        |                                                                 |                     |
|        | Corresponding NOS Code  
CON/N8003                                                                             |                                                                 |                     |

- Safety Helmets
- Face shield
- Overalls
- Knee pads
- Safety shoes
- Safety belts
- Safety harness
- Safety Gloves
- Safety goggles
- Particle masks
- Ear Plugs
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Module</th>
<th>Key Learning Outcomes</th>
<th>Equipment Required</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>• Demonstrate different methods involved in providing first aid to the affected person.</td>
<td>• Reflective jackets</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Explain the importance of worker participation in safety/mock drills</td>
<td>• Fire Extinguisher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Demonstrate the use of all Personal Protective Equipment (PPE) like helmet, safety shoe, safety belt, safe jackets and other safety equipment relevant to bar bending work.</td>
<td>• Fire prevention kit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Explain the reporting procedure adopted in case of emergency situations</td>
<td>• First Aid box</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Describe the standard procedure for handling, storing and stacking of material, tools, equipment and accessories</td>
<td>• Safety tags</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Explain different types of wastes produced at a construction site including their disposal method</td>
<td>• Safety Notice board</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Explain the purpose and importance of vertigo test at construction site</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Demonstrate vertigo test</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• List out basic medical tests required for working at construction site</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Explain the types of ergonomic principles adopted while carrying out specific task at the construction</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Explain the benefits of basic ergonomic principles used at construction sites.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Explain the importance of housekeeping</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Demonstrate housekeeping practice followed after painting and decoration works.</td>
<td></td>
</tr>
</tbody>
</table>

**Total Duration**

**Theory Duration** 120:00 hours

**Practical Duration** 280:00 hours

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 scrapers, 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

**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:** 400 Hours, 0 Minutes

(This syllabus/curriculum has been approved by Construction Skill Development Council of India)
Trainer Prerequisites for Job role: “Construction Painter and Decorator” mapped to Qualification Pack: “CON/Q0503, Version 2.0”

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Area</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Description</td>
<td>To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “CON/Q0503, Version 2.0”.</td>
</tr>
<tr>
<td>2</td>
<td>Personal Attributes</td>
<td>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</td>
</tr>
<tr>
<td>3</td>
<td>Minimum Educational Qualifications</td>
<td>ITI/12th</td>
</tr>
<tr>
<td>4a</td>
<td>Domain Certification</td>
<td>Certified for the job role “Construction Painter and Decorator” mapped to QP: “CON/Q0503 Version 2.0” Minimum accepted score is 80%</td>
</tr>
<tr>
<td>4b</td>
<td>Platform Certification</td>
<td>Certified for the job role “Trainer” mapped to QP: “MEP/Q2601” Minimum accepted score is 80%</td>
</tr>
</tbody>
</table>
| 5       | Experience                    | i. Technical Degree holder with minimum five years of Field experience and preferably two years of teaching experience, or,  

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