

17th National Skill Qualification Committee Meeting

Name of awarding
body

- Construction
SSC

Number of QF

- 02

Overview

Brief overview of sector

Overview of qualification

NCO- NIC code

Stakeholder consultations

Occupational map

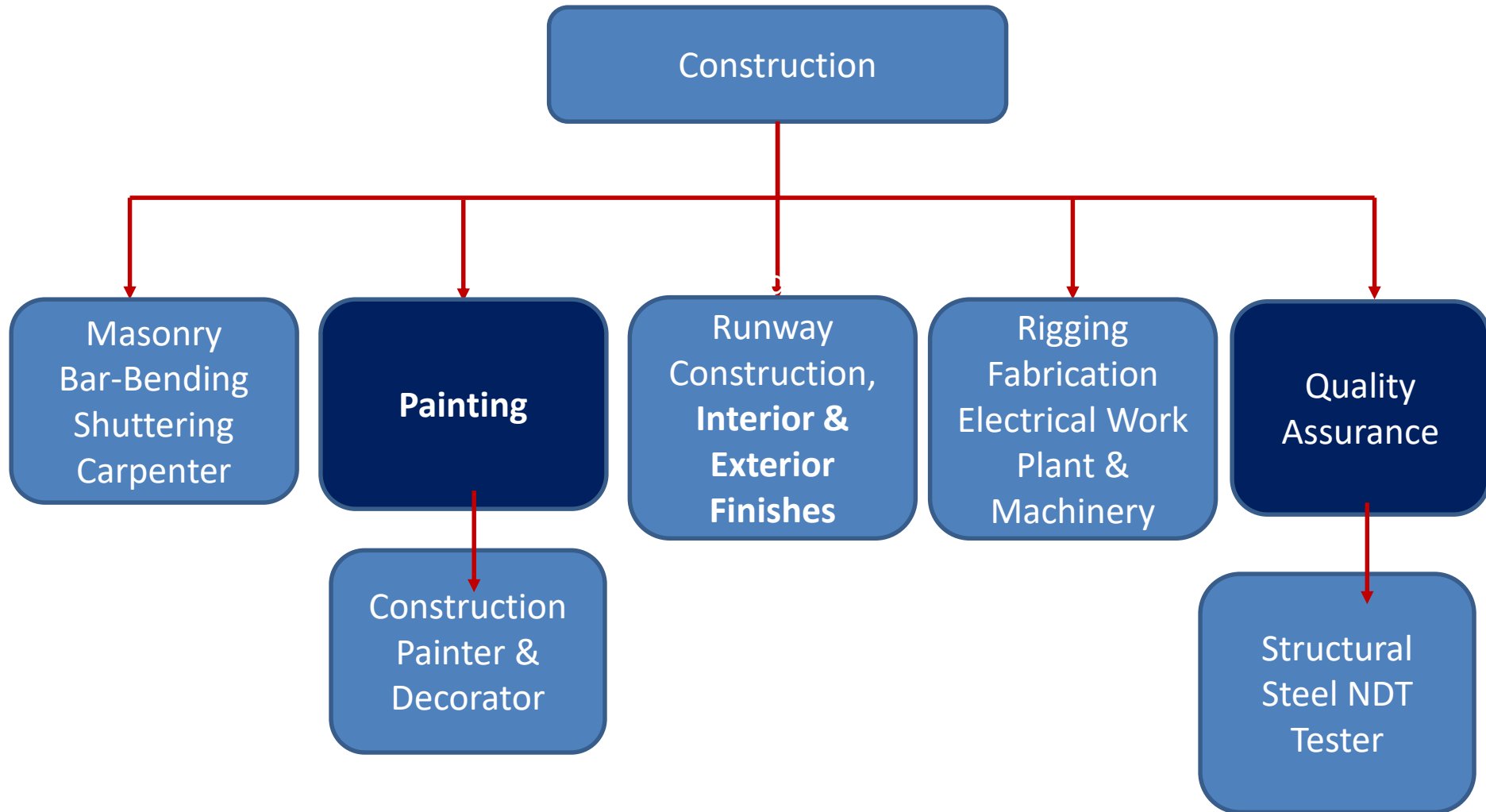
Checklist – all checklist

Profile : Construction Sector

The Construction Industry is one of the most critical industries within India's landscape. In terms of % GVA Construction ranks second after agriculture at 9.6% with workforce contribution of 10.60% .

- The value of the Indian Construction Industry is estimated to be over US\$ 126 billion.
- The construction industry has contributed an estimated INR 6708 billion to the national GDP in 2011-12 (a share of around 8%).
- The industry also generates employment for more than 40 million people
- By 2020, India is expected to emerge as the world's third-largest construction market.
- It provides growth impetus to manufacturing sectors like cement, bitumen, iron and steel, chemicals, bricks, paints etc. whose combined value stands at approximately INR 1.92 lakh crores annually and construction equipment market which stands at INR 1.05 lakh crore annually

Subsectors : Construction



Stakeholder Consultations

Qualifications have been shared with Paint & Coatings SSC & Construction Industry Development Council (CIDC), New Delhi – HQ.

Paint & Coatings SSC responded stating that some of these qualifications do overlap with their job roles. But in a joint meeting both the SSCs decided that the outcomes of job roles are different and might work on developing exclusive qualifications. They also agreed to adopt the relevant NOSs of each other.

CIDC facilitated the stakeholder consultations with practitioners and field experts (500+) from the construction industry.

Construction Painter & Decorator

NCO code	NCO 2015/7131.0100
Occupation as per NCO	Painter, Building
Description as per NCO	<p>applies coats of paint, varnish and other similar material to protect or decorate exterior and interior surface of buildings using spray gun, hand brush, etc.</p> <p>Selects paint materials. Mixes paints and matches colours by stirring together proper proportions of pigment, oil, thinner etc. and drying substances.</p> <p>Erects working scaffolding with bamboo poles and wooden planks or positions ladders at required height or places to be painted.</p> <p>Cleans surface packs, cracks and holes with mud fillers or mortar to prepare it for painting.</p> <p>Applies prime coat and allows it to dry. Brushes or sprays one or more coats of paint on surface to required finish.</p>
Job description as per QP	<p>This job role is responsible for applying paint on masonry, metallic and wooden surfaces to produce decorative finishes. The individual should have good knowledge of painting techniques and inclination for safe works practices.</p>

Construction Painter & Decorator

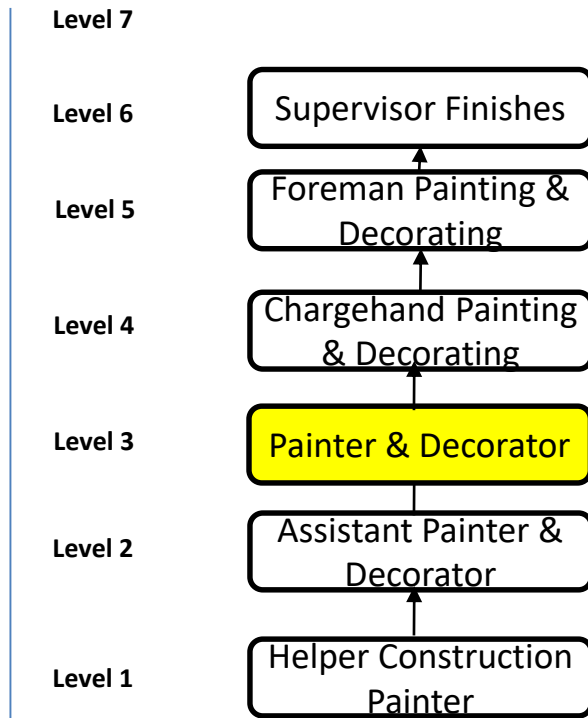
Need of the Qualification	Industry validation received from : 34 Industries
Min Educational Qualifications:	Class 5 th (Preferably) The educational competence required for performing the job will be achieved by completion of Class 5 th
Experience (Desirable)	Non trained worker : 5 years Trained worker: 2 years site experience as a certified Assistant Painter
Notional hours	400 (spread over 9 NOSs which are essentially the learning outcomes of the qualification) The learning hours have been vetted by Sector experts and competencies can be achieved in the given time.

Construction Painter & Decorator - NOS

Title of component	Estimated size (learning hours)	PCs
1. Apply OBD, Acrylic and emulsion paints on various finished masonry surfaces	56	17
2. Apply paint on metallic/structural steel fabricated assemblies	56	18
3. Apply paint, varnish & polish on wooden windows, doors, partitions, panels and other wooden surfaces	48	20
4. Carry out spray painting on all types of surfaces as per requirements	56	12
5. Create ornamental designs on finished masonry surfaces using texture paints and stencils painting techniques	52	19
6. Carry out minor repair of various painting faults	36	07
7. Work effectively in a team	24	08
8. Plan and organize work to meet expected outcomes	36	12
9. Personal Health, Safety & environmental protocol	36	12

Construction Painter & Decorator

Career Path – Construction Painter & Decorator



Construction Painter & Decorator

NSQF level	3
Process required	Job holder performs works which requires limited range of activities which are routine in nature and requires limited sets of skill. Work includes using hand rollers and spray machines to apply OBD, acrylic, emulsion and other paints on various masonry and metallic surfaces, varnishing and polishing on and wooden surfaces. The above activities are of a limited range and routine in construction sites
Professional Knowledge	Job holder is expected to have knowledge about different types of painting tools and equipments, paints and related painting materials, their standard size, types and their use along with basic maintenance. Job holder is expected to read and understand sketches/ routine working drawings/instructions provided for work.
Professional Skills	Job holder is expected to demonstrate skills for a narrow range of painting application which are routine and repetitive in nature like using hand and spray machines for applying OBD, acrylic, emulsion and other paints on various masonry and metallic surfaces, varnishing and polishing on and wooden surfaces as per standard procedure along with checking of self-work, also correct/rectify work done as per supervisors directives.
Core Skills	Job holder is expected to have good reading and writing skills in at least one language. Job holder should apply basic principle of measurement, arithmetic calculation,. to determine the quantity of material required for painting works, measurement of daily work done etc.
Responsibility	Job holder has some responsibility for own work within defined limit and always work under close supervision of trade senior for performing assigned task within time and with quality following standard working procedures and safety. The job holder is always needs to undergo quality checks for the assigned task by the superior

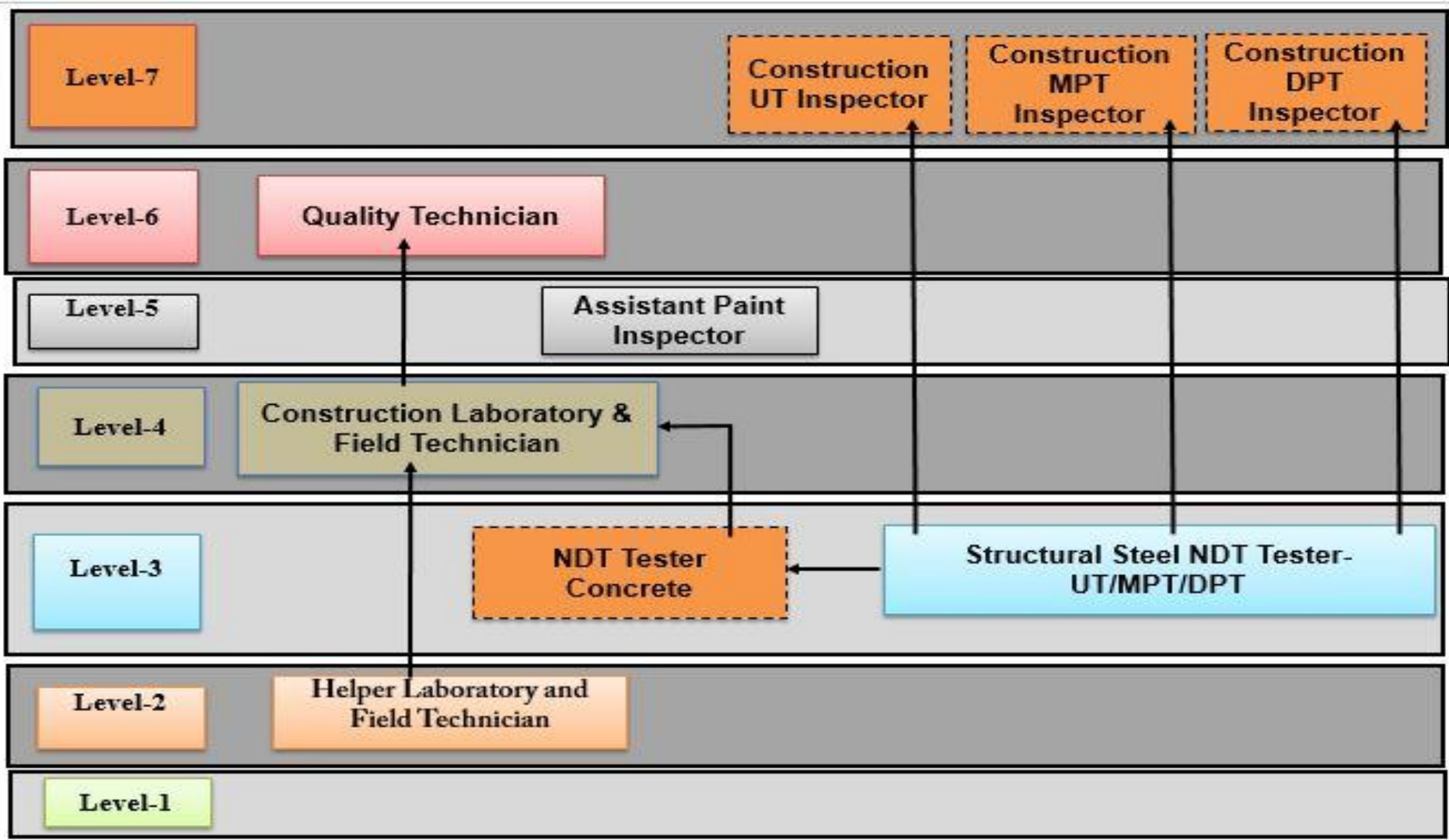
Structural Steel NDT Tester-UT/MPT/DPT

Need of the Qualification	Industry validation received from : 34 Industries
Min Educational Qualifications:	<p>Preferably 10th standard, or ASNT level 1 qualified</p> <p>The educational competence of passing class 10th is required because of technical testing and have been vetted by sector experts.</p>
Experience (Desirable)	Nil
Notional hours	<p>550 (spread over 4 NOSs which are essentially the learning outcomes of the qualification)</p> <p>The learning hours have been vetted by Sector experts and competencies can be achieved in the given time.</p>

Structural Steel NDT Tester-UT/MPT/DPT - NOS

Title of component	Estimated size (learning hours)	PCs
CON/N0412: Perform Magnetic Particle test on structural steel welded joints	175	16
CON/N0411: Perform ultrasonic testing on structural steel components and welded sections	175	16
CON/N0412: Perform Magnetic Particle test on structural steel welded joints	175	16
CON/N9001: Work according to personal health, safety and environment protocol at construction site	25	12

Career Path – Structural Steel NDT Tester- UT/MPT/DPT



Job roles in are identified but QPs not developed

Structural Steel NDT Tester-UT/MPT/DPT

NSQF level	3
Process required	<p>Job holder performs works in limited range of activities which are routine in nature and requires limited set of skills such as identification and application of consumables required for Dye penetration testing and roughly estimate their required quantity. They are also expected to undertake activities of surface preparation prior to testing and conduct the Dye penetration test. These works are routine and repetitive in nature as they involve following of laid down procedures.</p>
Professional Knowledge	<p>Job holder is expected to have basic knowledge of the procedure involved in Dye penetration test like application of developer, indicator etc. They are also expected to possess knowledge of operation of various types of consumables and instruments. The job holder should also be aware of the safety rules and regulations to be observed in the fabrication yard and emergency procedures laid down at site</p>
Professional Skills	<p>The job holder is expected to demonstrate practical skills in narrow range such as identifying the location for conducting the test, preparing the surface and conducting the test etc while carrying out routine and repetitive works. These skills find applications over a narrow range of activities of performing Dye penetration test which is repeated multiple times in a single project.</p>
Core Skills	<p>Job holder is expected to have good reading and writing skills in at least one language.</p> <p>Job holder is also expected to read and understand sign boards, safety rules and shall be able to orally communicate clearly and effectively with seniors in at least one language</p> <p>The job holder should be able to apply arithmetic principles for computing material requirements and plan for self work</p>
Responsibility	<p>The job holder is responsible for performing the Dye penetration test at instructed location, using proper consumables and calibrated instrument and attachments for specific purpose as per standard test procedure. The job holder has a restricted</p>

Checklist – QF supporting documents

1. Career Map/ Progression
2. Relevant Qualification Pack
3. Occupation Map
4. Complete Qualification files
5. Industry endorsements / validations (34)
6. Model Curriculum