

## **AFFILIATION PROTOCOL FOR TRAINING PROVIDERS WITH PAINTS AND COATINGS SKILL COUNCIL**

### **1. Affiliation – Reference to Context**

The term Affiliation is used to define a process of establishing competence of any institution desirous of delivering vocational training from NVEQF/NVQF/NSQF level 1 to 10 which is based on National Occupational Standards (NOS) created by a Sector Skill Council (SSC) constituted by NSDC.

Any Education Body/Vocational Training Provider (VTP) can seek affiliation from a Sector Skill Council in delivering the requisite elements of a NOS based vocational training. The affiliation process conducted by an SSC will carry out evaluation of competence and availability of the desired infrastructure/capability of creating the desired infrastructure matching the needs/ requirements of delivering NOS based training.

The alignment of an SSC and an Education Body/VTP through the process of Affiliation will focus on learning and development of the learners so that they are easily employable in the sector. The process is also expected to encourage Education Body/VTP to pursue continual excellence so that they are always in tune with the requirements of the sector. Thus the purpose of Affiliation is to maintain high standards of quality in delivering NOS based vocational training.

Some of the salient objectives of affiliation include:

- To assess Education Bodies/VTPs and their programs that meet defined quality standards set up by the SSC in delivering NOS based training.
- To foster excellence in VTP institutions building effectiveness in delivering NOS or competency based training.
- To establish a framework for continuous improvement and provide an opportunity to benchmark with other institutions in India and abroad.
- To facilitate developing the professional competency of the learners in tune with the requirements of the sector.

SSCs by way of affiliation will give access to the affiliating partners to a variety of benefits, such as:

- Alignment of training to NVEQF/NVQF/NSQF leading to equivalence with educational degrees, diplomas and certifications.
- Ratification of NOS based curriculum.
- Access to Master Trainers of the SSC and certification of the trainers of the affiliating training provider.
- Facilitate On the Job Training (OJT) and / or placements of the affiliating partner trainees.
- Assessment of trainees on NOS based curriculum.
- Industry recognised certification of the successful trainees.
- Participation in Government led programs at institutional and state level, aligned to NVEQF/ NVQF/ NSQF.
- Access to the reports on the Sectoral Researches conducted by the SSC.
- Participation in the various Sector Specific Seminars.
- Access to International bodies available in similar space.



## 2. Institutions eligible to affiliate to the Sector Skill Councils

1. All NSDC Training Partners.
2. Training Institutions set up/affiliated by Government of India.
  - a. ITIs/ITCs affiliated to NCVT.
  - b. Institutions approved by Councils under Central Government like AICTE (All India Council for Technical Education)
  - c. Colleges/Institutes affiliated to Universities set up by Central or State Governments/Union Territories or recognised by UGC (University Grant Commission)
  - d. Schools/Institutes approved by Central or State Boards of Secondary Education (or equivalent) or Boards of Technical Education.
  - e. Any other institute set up by Central or State/ UT government
3. Private Training Institutions independently operating in Vocational Space.
4. Training institutions set up by private companies to meet the skilled manpower requirement for in-house needs or for the sector.
5. Company/Firm/Society/Trust - fulfilling any of the following criteria:
  - a. An organisation providing training under Apprentices Act, 1961 for last one year from the date of submission of the application.
  - b. An organisation registered in India, conducting business in the domain of skill development & training, having Permanent Income Tax Account Number (PAN) and Service Tax Registration Number and audited accounts of statements at least for last one year.

## 3. Guidelines for affiliation with Paints and Coatings Skill Council

1. All VTPs seeking affiliation must submit fully filled affiliation form to the Sector Skill Council with authorised signature and company stamp on every page.
2. VTPs should ensure that the name and number of the Qualification Packs are as mentioned in the form.
3. Training centers applying for affiliation will be physically verified by the SSC.
4. A training center rejected by the SSC during physical verification, may be given a window of one week to make changes and meet the standards as laid down by the SSC. (Every round of physical verification will attract the same fee.)
5. Every approved training center must have at least one SSC certified trainer as per the qualification standards laid down by SSC enclosed as **Annexure-1**.
6. Every approved training center has to comply with infrastructure facility and the minimum essential requisite equipment for each applied job role as per the list laid down by SSC enclosed as **Annexure-2**.

## ANNEXURE - 1

QUALIFICATIONS PACK			TRAINER QUALIFICATIONS					
Job Role	QP No.	NSQF	General requirements	Minimum Educational Qualification	Total experience (In Years)	Out of total experience, domain experience (In years)	Out of total experience, teaching experience (In years)	Remarks from SSC
General Industrial (Liquid) Painter	PCS/Q5108	4	Should be able to demonstrate practical skills to the trainees. Should have knowledge of proper masking and masking tools, surface preparation requirements and procedures, putty and paint mixing procedure, proper use of putty knife, brush and rollers. Should have knowledge of orbital sanders and its use. Should have knowledge of spray gun and its proper use.	12th Standard	2	2	0	Teaching experience, in the sector is desirable but not mandatory.
Powder Coater	PCS/Q5102	4	Should be able to demonstrate practical skills to the trainees. Should have knowledge of proper masking and masking tools, surface preparation requirements and procedures, should have knowledge of orbital sanders and its use. Should have knowledge of powder coating application system, its proper use and controls to achieve the desired quality with minimal wastage.	12th Standard	2	2	0	Teaching experience, in the sector is desirable but not mandatory.

Protective and Marine Painter	PCS/Q5109	4	Should be able to demonstrate practical skills to the trainees. Should have knowledge of proper masking and masking tools, surface preparation requirements and procedures, putty and paint mixing procedure, proper use of putty knife, brush and rollers. Should have knowledge of orbital sanders and its use. Should have knowledge of spray gun and its proper use.	12th Standard	2	2	0	Teaching experience, in the sector is desirable but not mandatory.
Technical Sales Representative	PCS/Q0102	5	Should be able to demonstrate practical skills to the trainees. Should have knowledge of the different types of paints and its use, proper masking and masking tools, surface preparation requirements and procedures, putty and paint mixing procedure, proper use of putty knife, brush and rollers. Should have knowledge of orbital sanders and its use. Should have knowledge of spray gun and its proper use. Should be familiar with the different stencils/ design rollers and its use.	B. Sc.	2	2	0	Teaching experience, in the sector is desirable but not mandatory.
QC Chemist RM and FG	PCS/Q0802	5	Should be capable of demonstrating the various test methods. Should have knowledge of the various raw materials and its quality parameters, paint manufacturing process and the various paint processing equipment and its process control, quality assurance procedures, FG quality parameters and its control and trouble shooting.	B. Sc.	2	2	0	Teaching experience, in the sector is desirable but not mandatory.

Filling and Packing Operator	PCS/Q0902	3	Should have knowledge of the paint/ powder manufacturing process and the equipment used for manual, semi-automatic and automatic filling of the liquid paint/ powder, its process control to achieve an efficient filling process.	12th Standard	2	2	0	Teaching experience, in the sector is desirable but not mandatory.
Shop Tinting Assistant	PCS/Q5007	4	Should have knowledge of the different paint systems and its use, colour matching process and use of tinting machine and its use, proper mixing of the base and colourants.	12th Standard	2	2	0	Teaching experience, in the sector is desirable but not mandatory.
Air Classification Mill Operator	PCS/Q0601	4	Should have knowledge of the powder manufacturing process, working of the air classification machine and its control to get the desired quality. Should have minimum 5-year experience in laboratory / powder manufacturing and relevant training or teaching. Should be capable of demonstrating the required skills to the trainees.	B. Sc.	2	2	0	Teaching experience, in the sector is desirable but not mandatory.
Dispersion Operator	PCS/Q0507	6	Should have knowledge of the paint manufacturing process and the various paint processing equipment and its process control, methods of checking dispersion.	B. Sc.	2	2	0	Teaching experience, in the sector is desirable but not mandatory.
Extrusion Operator	PCS/Q0602	5	Should have knowledge of the powder manufacturing process, working of the extruder and its control to get the desired quality.	B. Sc.	2	2	0	Teaching experience, in the sector is desirable but not mandatory.
Mixing Operator	PCS/Q0508	5	Should have knowledge of the paint manufacturing process and the various paint processing equipment and its process control, different types of stirrers and its use.	B. Sc.	2	2	0	Teaching experience, in the sector is desirable but not mandatory.

Production QC In-Charge	PCS/Q0505	5	Should have knowledge of the paint manufacturing process and the various paint processing equipment and its process control, quality assurance procedures.	B. Sc.	2	2	0	Teaching experience, in the sector is desirable but not mandatory.
Tinting Operator	PCS/Q0509	7	Should have knowledge of paint manufacturing process, different quality of paints and their relevant colourants and application procedures, colour matching process, tinting machine and its use, proper mixing/ dispersion.	B. Sc.	1	2	0	Teaching experience, in the sector is desirable but not mandatory.
Tumbling Operator	PCS/Q0603	4	Should have knowledge of the powder manufacturing process, working of the tumbling machine and its control to get the desired quality.	B. Sc.	2	2	0	Teaching experience, in the sector is desirable but not mandatory.

Standard infrastructure and consumables for a training center for all Qualifications Packs will be as below.

INFRASTRUCTURE	CONSUMABLES
Classroom measuring minimum 300 sq. ft. (to seat 30 candidates comfortably)	Masks
Tables and chairs for students and trainer	Gloves
Projector	Personal protection gear
Audio system	Waste Cloth / cotton waste / rags
Screen	Demo papers / glass plates / black and white coated paper
Writing board	Different paints for interior and exterior
Fire extinguishers	Sand papers of different grades
Solvent Vapour Extraction (for lab/ practical work area)	Wood / mild steel / tin panels
Weighing Balance (600 gms capacity with 0.1 gm least count)	
Weighing Balance (2 kg capacity with 1 gm least count)	
Mixing cups, spatulas, measuring cylinders, glassware and miscellaneous items	
Ford cups, WPL cup, thermometer, stop watch	
Lab stirrers / Hand Mixers / Blenders (approximately 6 nos)	
DFT meter	
Complete electricals including panels, wiring, switchgear and lighting	
Compressed airlines for all relevant equipment with gauges and controls	
Display units showing panels in different finishes	
Fan	
Safe drinking water	
Sanitary facilities for men and women	

## ANNEXURE - 2

QUALIFICATIONS PACK			EQUIPMENT LIST	
Job Role	QP No.	NSQF	Mandatory Equipment	Optional Equipment
General Industrial (Liquid) Painter	PCS/Q5108	4	Chemical pre-treatment set up (production scale or lab scale), wire brush, spray booth / Painting area, putty/filler application knife, spray guns (air assisted and airless), brushes (different types and sizes), rollers, industrial/lab oven.	Shot/ grit blasting machine, spray booth with exhaust system, waterline, scrubber, temperature and humidity control, dust filters, orbital sander, sanding station with dust exhaust, 3 stage filter regulator, trowels, mixing vessels.
Powder Coater	PCS/Q5102	4	Chemical pre-treatment set up (production scale or lab scale), wire brush, spray booth/ painting area, powder spray guns, industrial/lab oven.	Shot/ grit blasting machine, spray booth with exhaust system, temperature and humidity control, electrostatic/ suitable powder application set up, dust filters, 3 stage filter regulator, powder re-cycling and filtration equipment.
Protective and Marine Painter	PCS/Q5109	4	Wire brush, spray booth / painting area, putty/filler application knife, spray guns (air assisted and airless), brushes (different types and sizes), rollers, trowels.	Shot/ grit blasting machine, mixing vessels.
Technical Sales Representative	PCS/Q0102	5	Hand mixing/ pneumatic stirrer, Hegmann gauge, Ford cup, weigh balance, bar applicators, brush, rollers.	High/ Variable Speed Stirrer, mixing vessels, Stormer viscometer, Brookfield's viscometer, wire wound applicators, automatic drawdown machine, industrial oven, infrared dryer, glossometer, colour spectrophotometer.
QC Chemist RM and FG	PCS/Q0802	5	Paint/powder processing equipment, hand mixing/ pneumatic stirrer, Hegmann gauge, weigh balance, bar applicators, Ford cup.	Mixing vessels, High/ Variable Speed Stirrer, Stormer viscometer, Brookfield's viscometer, wire wound applicators, automatic drawdown machine, industrial oven, infrared dryer, glossometer, colour spectrophotometer.



Filling and Packing Operator	PCS/Q0902	3	Weigh balance, rubber/ wooden hammer.	Paint/powder processing equipment, load cell operated packing machine, automatic conveyerised packing line, pneumatic lid presser, online label printing machine.
Shop Tinting Assistant	PCS/Q5007	4	Tinting machine, gyro shaker, computer system.	
Air Classification Mill Operator	PCS/Q0601	4	Powder processing equipment, sieves, powder applicators, industrial oven.	Particle size determination counter.
Dispersion Operator	PCS/Q0507	6	Paint dispersing equipment, bar applicators, Hegmann gauge.	High/ Variable Speed Stirrer, mixing vessels, stormer viscometer, wire wound applicators, automatic drawdown machine.
Extrusion Operator	PCS/Q0602	5	Powder processing equipment, powder applicators and industrial oven.	
Mixing Operator	PCS/Q0508	5	Hand mixing/ pneumatic stirrer, Hegmann gauge, weigh balance.	Mixing vessels, variable/ high speed stirrers, bar applicators/ brush, Hegmann gauge, infrared dryer.
Production QC In-Charge	PCS/Q0505	5	Paint/powder processing equipment, hand mixing/ pneumatic stirrer, Hegmann gauge, weigh balance, bar applicators, Ford cup.	Mixing vessels, High/ Variable Speed Stirrer, Stormer viscometer, Brookfield's viscometer, wire wound applicators, automatic drawdown machine, industrial oven, infrared dryer, glossometer, colour spectrophotometer.
Tinting Operator	PCS/Q0509	7	Bar applicators, Hegmann gauge, Weigh balance.	High speed/ Variable speed stirrer, mixing vessels, wire wound paint applicators, automatic drawdown machine, colour spectrophotometer.
Tumbling Operator	PCS/Q0603	4	Powder processing equipment, sieves, powder applicators, industrial oven.	Particle size determination counter.