



National Vocational Qualification of Building Painting & Decorating

Level - 2
(Painter Helper)



National Vocational & Technical Training Commission,
Islamabad



ACKNOWLEDGMENT

National Vocational and Technical Training Commission (NAVTTTC) extends its gratitude and appreciation to representatives of business, industry, academia, government agencies, provincial TEVTAs, sector skill councils and trade associations who spared time and extended their expertise for the development of National Vocational Qualifications for the trade of **Building Painting & Decorating**(Level-2Painter Helper). This work would not have been possible without the technical support of the above personnel.

NAVTTTC initiated development of CBT&A based qualifications for 200 traditional / hi-tech trades under the Prime **Minister's Hunarmand Pakistan Program**, focusing on Development & Standardization of 200 Technical & Vocational Education & Training (TVET) Qualifications. NAVTTTC efforts have received full support from the Ministry of Federal Education and Professional Training which highly facilitated progress under this initiative.

It may not be out of place to mention here that all the experts of Industry, Academia and TVET experts of TEVTAs, BTEs and PVTC work diligently for making this qualification worthy and error free for which all credit goes to them. However, NAVTTTC accepts the responsibility of all the errors and omissions still prevailing in the Qualification document.

It is also noteworthy that development of Skill Standards is a dynamic and ongoing process, and the developed skill standards needs periodic review and updating owing to the constant technological advancements, development in scientific knowledge, and growing experience of implementation at the grass root level as well as the demand of industry. NAVTTTC will ensure to keep the qualifications abreast with the changing demands of both national and international job markets.

**Sajid Baloch,
Executive Director,
NAVTTTC**



National Competency Standards
For
National Vocational Certificate
Level 2
“Building Painting& Decorating”
(PAINTER HELPER)

NVQF Level 2

DACUM Facilitator:

NAVTTTC Coordinator:

Quality Assurance:



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1. Introduction

Pakistan is one of the largest skilled labor provider in the Middle East. According to the new labor laws and labor requirements, a large number of skilled laborer are demanded by the Saudi government. It includes different construction services like steel fixers, plumbers, carpenters, and construction painters, etc. For this purpose, a new qualification is required in CBT&A mode. NAVTTC is preparing this standard qualification in line with the NVQF guidelines.

Thus, making it imperative for the Pakistan government to actively train individuals to attend to the needs of the ever-challenging and rapidly evolving changes in the sector. Construction industry painting is highly challenging and well-paid professionals are always in need of trained & quality-oriented staff.

Construction Painting industry competency standards deal with the knowledge and skills required in the provision of construction processes. These standards focus on the procedures to equip the workforce with the knowledge and skills that personify the efficient work performance in assisting the higher management in delivering quality products & services

This course is designed to enhance the knowledge, skills, positive attitude, and work values of a painter following international standards. It covers competencies in preparing tools, painting materials, and equipment; preparing the surface for painting; and performing painting works.

2. Purpose of qualification

The purpose of this qualification is to give the candidate a thorough understanding and skills of the construction sector with special reference to building paint in the six-month training program. The construction industry needs skilled labor to meet national and international standards. It is therefore important to stress the need for a multidisciplinary approach to meet the challenges within the sector. Upon successful completion of this course, the trainee should be able to:

- Core elements and the development of the painting process
- Give an account of the essentials construction industry and the future of this industry
- Demonstrate an understanding of different painting traits.



- Point out relevant industry stakeholders & their roles in driving innovation in paint management
- Improve the professional competence of the trainees
- Provide opportunities for recognition of skills attained through non-formal or informal pathways
- Improve the quality and effectiveness of training and assessment for paint industry skilled labor
- Enhance construction industry activities at regional/provincial/national levels through a better approach.

3. Date of validation

This national qualification has been validated by the Qualification Validation Committee (QVC) on 1st November 2021, in Lahore, and will remain valid until November 2024.

4. Date of review

This national qualification may be reviewed in Lahore during the month of October 2024.

5. Code of qualification

The International Standard Classification of Education (ISCED) is a framework for assembling, compiling, and analyzing cross-nationally comparable statistics on education and training, ISCED codes for these qualifications as assigned as follows:

Qualification Titles	Code
National Vocational Qualification Level – 2 Worker (Painter Helper)	200

6. Qualification development committee

The following members participated in the qualifications' development workshop from 9 - 13 August 2021 in Lahore:

Sr. No	Name	Designation & Organization
1.	Muhammad Aasim	Assistant Director, Coordinator, Islamabad NAVTTC



Sr. No	Name	Designation & Organization
2.	Muhammad Nasir Khan	DACUM Facilitator
3.	Engr. Rebab Maria Mahmood	Site Engineer, IMC
4.	Engr. Muhammad Irshad Najam	Instructor Civil Draftsman, GTTI Gulberg Lahore
5.	Muhammad Saleem	Sr. Instructor GTTI Mughalpura Lahore
6.	Syed Fayyaz Mustafa	Jr. Instructor, GSTC Faisalabad
7.	Mudassar Iqbal Ranjha	Assistant Director, TEVTA Secretariat Lahore
8.	Owais Moin Ud Din	Deputy Manager, Royal Airport Services Lahore
9.	Engr. Mehak Javed	Site Engineer NESPAK, Lahore
10.	Arshad Iqbal	Expert Worker

7. Qualification validation committee

The following members participated in the qualification validation workshop from 1– 5 November 2021, in Lahore:

Sr. No	Name	Designation & Organization
1.	Muhammad Aasim	Assistant Director, NAVTTC Coordinator, Islamabad
2.	Muhammad Nasir Khan	DACUM Facilitator
3.	Mr. Muhammad Irshad Najam	Instructor, Civil Draftsman & Building Painter. GTTI Gulberg
4.	Mr. Muhammad Saleem	Sr. Instructor Draftsman Civil GTTI Moghalpura Lahore
5.	Mr. Daniyal Saqib	Project Engineer at Cheema Developers



Sr. No	Name	Designation & Organization
		Private Limited, Abbottabad
6.	Engr. Ihsanullah Shah	Senior Sub Engineer, University of Haripur Consultant Structural Engineer from PEC
7.	Mr. Inam Ul Haq	Instructor, CTTI Islamabad
8.	Engr. Mehak Javed	Site Engineer, NESPAK Lahore
9.	Engr. Rebab Maria Mahmood	Site Engineer, IMC Lahore
10.	Mr. Shahid Ameen	Lab Technologist, Punjab Tianjin University of Technology, Lahore
11.	Syeda Fatima Iqbal	System Analyst, Representative PBTE Lahore
12.	Mr. Malak Shams ul Arifin	Lecturer, GCT Nowshera, Representative KP- TEVTA
13.	Engr. Israr Ahmad	Secretary, Representative KP BTE
14.	Mr. Shoaib Anwar Sherazi	Principal TTC Quetta, Representative BTEVTA, Quetta
15.	Dr. Naazir Khan	Chairman PBTE, Lahore

8. Entry requirements

Entry requirements of these qualifications are Primary / Middle (worker & painter).

9. Regulations for the qualification and schedule of units

Not applicable

10. Packaging of qualification

The national vocational qualifications packed as per the following:

LEVEL – 2

1. Personal Health, Safety and Environment in the Workplace
2. Maintain tools and Equipment
3. Prepare job Site



LEVEL – 2

4. Prepare the surface for painting
5. Match and mix of paint
6. Assist painter during job
7. Cleantools / equipment after job completion
8. Dispose of Waste Materials

11. Occupations of painter helper

Sr. No.	Competency Standards	Level	Theory hours	Practical hours	Total contact hours	Total Credit hours
1	Personal Health, Safety and Environment in the Workplace	2	20	30	50	5
2	Maintain tools and Equipment	2	10	60	70	7
3	Prepare Job Site	2	20	90	110	11
4	Prepare surfaces for painting	2	20	90	110	11
5	Match and mix of paint	2	10	90	100	10
6	Assist painter during job	2	10	60	70	7
7	Cleaning tools / equipment after job completion	2	10	30	40	4
8	Dispose of Waste Materials	2	20	30	50	5
	Total		120	480	600	60



12. Competencies

1022OHS01. Personal health, safety, and environment in the workplace

Overview:

This competency standard covers the skills and knowledge required for an individual to not only look after his own but also the health and safety of others at work around him.

Competency Units	Performance Criteria
CU-1. Ensure safety at your workplace	P1. Turn off all the fans P2. Avoid the use of fire and cigarettes during enamel paint P3. Dry the floor while painting with a spray machine
CU-2. Ensure PPE's	P1. Wear gloves P2. Wear masks and safety goggles P3. Stand properly on ladders/scaffolding P4. Use a full-body harness while working on height P5. Wear helmets and safety shoes

Knowledge and Understanding:

The student must be able to demonstrate the knowledge and understanding required to carry out tasks covered in this competency standard. This includes the knowledge of:

- Explain Job description of individuals at work
- State accident records
- Describe ill-health records
- Local laws and regulations on health, hygiene, and safety
- Discuss Standard Operating Procedures for Health, hygiene, and safety
- Operations and activities are typically undertaken in the workplace
- Possible health, hygiene, and safety issues
- Types of Health, hygiene, and safety control measures appropriate to the workplace
- Principles, content, and format of workplace health, hygiene, and safety documentation



Critical Evidence(s) required:

The candidate needs to produce the following critical evidence(s) to be competent in this competency standard:

- Know responsibilities for Health, hygiene, and safety
- Understand the possible potential risks to others' Health, hygiene, and safety.
- Elaborate methods to Deal with resolvable problems
- Prepare a report of unresolvable problems
- Support individuals at work

Tools and Equipment Required:

Sr. #	Items
1.	Water
2.	Kerosene Oil
3.	Brush (different sizes)
4.	Roller
5.	Thinner
6.	Dusting cloth/cotton waste
7.	Scraper
8.	Lubricant oil
9.	PPEs • Gloves • Goggles • Shoes • Mask • Apron • Safety Cap



0732P&WC01. Maintain tools and equipment

Overview:

This competency standard covers the skills and knowledge required for the maintenance and cleaning of tools and equipment used for paint work.

Competency Units	Performance Criteria
CU-1. Wash Brushes/ roller	P1. Identify different types of brushes/rollers P2. Wash the brush/roller under running water (for water-based paints) P3. Rub thoroughly using fingers. P4. Dry the wet brush properly. P5. Wash brush/roller with kerosene oil (for enamel paint) P6.
CU-2. Wash Scraper	P1. Identify different types of scrapers P2. Perform washing of different types of scrappers. P3. Clean the wet scrapper with a cloth. P4. Arrange and store all scrappers properly.
CU-3. Check Scaffolding/ladder	P1. Perform regular cleaning of scaffolding/ladder P2. Check all welds and joints regularly P3. Repair joints/welds as per requirement P4. Check antiskid/rubber protection regularly.
CU-4. Check Spray machine	P1. Check all electrical connections before any use of the spray machine P2. Check the Belt before any use P3. Perform Overhauling of spray machines regularly
CU-5. Wash Spray gun	P1. Wash spray guns using kerosene oil/thinner. P2. Dry with duster cloth/cotton waste. P3. Check the spray gun using oil once before any use.

Knowledge and Understanding:

The student must be able to demonstrate the knowledge and understanding required to carry out tasks covered in this competency standard. This includes the knowledge of:



- Methods of washing tools and equipment.
- Methods of maintaining tools and equipment.
- General knowledge of overhauling techniques.

Critical Evidence(s) required:

The candidate needs to produce the following critical evidence(s) to be competent in this competency standard:

- Perform washing of tools
- Oiling of equipment used
- overhauling

Tools/Equipment/Manuals Required:

Sr. #	Items
1.	Water
2.	Kerosene Oil
3.	Brush
4.	Roller
5.	Thinner
6.	Dusting cloth/cotton waste
7.	Scraper
8.	Lubricant oil
9.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap



0732P&WC02. Prepare job site

Overview:

This competency standard covers the skills and knowledge required for the preparation of the job site. It includes reservation of furniture and fixtures and making all necessary arrangements for paint jobs.

Competency Units	Performance Criteria
CU-1. Perform Wall cleaning/preparation	P1. Lay polythene sheet properly P2. Clean the wall using broom/brush P3. Scrap the plaster splashes using a scraper P4. Clean the floor from scrapped material P5. Dump all the material properly at the designated place P6.
CU-2. Cover furniture and fixtures	P1. Cover all the furniture and fixtures with a polythene sheet P2. Cover all electrical points properly using masking tape
CU-3. Arrange utilities	P1. Open all doors and windows for proper ventilation P2. Ensure proper lighting at the workplace P3. Arrange mobile scaffolding/ladder with adequate height

Knowledge and Understanding:

The student must be able to demonstrate the knowledge and understanding required to carry out tasks covered in this competency standard. This includes the knowledge of:

- Methods of Site Cleaning.
- Methods of reservation of job site.
- Methods of all necessary arrangements.

Critical Evidence(s) required:

The candidate needs to produce the following critical evidence(s) to be competent in this competency standard:

- Cleaning and covering of site
- Electricity arrangements



Tools/Equipment/Manuals Required:

Sr. #	Items
1.	Cleaning tools
2.	Scaffolding/ladder
3.	Polythene sheets
4.	Masking tape
5.	Electricity
6.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap



0732P&WC03. Prepare surfaces for painting

Overview:

This competency standard covers the skills and knowledge required for making adequate preparations of the area to be painted including surface preparation and damage repairs.

Competency Units	Performance Criteria
CU-1. Apply wall putty	P1. Sand the wall properly P2. Apply an adequate amount of wall putty P3. Dry the wall putty P4. Use sandpaper (of different grades) for smoothing
CU-2. Repair damaged areas	P1. Clean the affected area P2. Fill the cracks with appropriate material P3. Scrub the excess material after drying P4. Use sandpaper(different grades) for smoothing
CU-3. Remove old paint	P1. Clean the wall P2. Use sandpaper (different grades) for smoothing P3. Remove old paint (if any) using a proper scraper P4. Clean the floor P5. Dump the residual material properly in the designated area

Knowledge and Understanding:

The student must be able to demonstrate the knowledge and understanding required to carry out tasks covered in this competency standard. This includes the knowledge of:

- Methods of damage repair.
- Methods of paint removal.

Critical Evidence(s) required:

The candidate needs to produce the following critical evidence(s) to be competent in this competency standard:

- Paint removal



- Wall putty
- Crack repair

Tools/Equipment/Manuals Required:

Sr. #	Items
1.	Scraper
2.	Sand Paper
3.	Scaffolding/ladder
4.	Polythene sheets
5.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap



0732P&WC04. Match and mix the paint

Overview:

This competency standard covers the skills and knowledge required for mixing and matching both emulsion and enamel paints as prescribed by the manufacturer.

Competency Units	Performance Criteria
CU-1. Mix Emulsion paint	P1. Arrange a plastic bucket P2. Pour the required amount of paint into the bucket P3. Pour the required amount of water as prescribed by the manufacturer P4. Mix the paint properly (by machine or hand mixer) P5. Check the consistency of the paint P6. Apply mixed paint to the surface P7. Match the shade card or the old paint P8. Add water and pigment (if required) until the color is matched as required
CU-2. Mix Enamel paint	P1. Arrange a plastic bucket P2. Pour the required amount of paint into the bucket P3. Pour in the required amount of thinner as prescribed by the manufacturer P4. Mix the paint properly (by machine or hand mixer) P5. Check the consistency of the paint P6. Apply mixed paint to the surface P7. Match the shade card or the old paint P8. Add thinner/pigment (if required) until the color is matched as required

Knowledge and Understanding:

The student must be able to demonstrate the knowledge and understanding required to carry out tasks covered in this competency standard. This includes the knowledge of:

- Methods of mixing paint.
- Methods of matching paint.



Critical Evidence(s) required:

The candidate needs to produce the following critical evidence(s) to be competent in this competency standard:

- Mixing of paint
- Matching of paint

Tools/Equipment/Manuals Required:

Sr. #	Items
1.	Hand Mixer
2.	Paint mixing machine
3.	Plastic Bucket
4.	Polythene sheets
5.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap



0732P&WC05. Assist painter during job

Overview:

This competency standard covers the skills and knowledge required for helping and assisting the painter during the painting job.

Competency Units	Performance Criteria
CU-1. Provide material	P1. Arrange an adequate amount of paint when required for the painter P2. Prepare repair paste P3. Arrange different brushes and rollers as required P4. Arrange mobile scaffolding/ladder as required
CU-2. Mix and Match Paint	P1. Mix the paint as per procedure P2. Apply matching color scheme with the previously mixed paint

Knowledge and Understanding:

The student must be able to demonstrate the knowledge and understanding required to carry out tasks covered in this competency standard. This includes the knowledge of:

- Methods of mixing paints.
- Methods of making repair paste.

Critical Evidence(s) required:

The candidate needs to produce the following critical evidence(s) to be competent in this competency standard:

- Mixing of paint
- Preparation of paste



Tools/Equipment/Manuals Required:

Sr. #	Items
1.	Scraper
2.	Hand Mixer/Paint mixer
3.	Brush
4.	Roller
5.	Scaffolding/ladder
6.	Dusting cloth/cotton waste
7.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap



0732P&WC06. Cleaning tools /equipment after job completion

Overview:

This competency standard covers the skills and knowledge required for site cleaning, maintenance, and storage of material.

Competency Units	Performance Criteria
CU-1. Clean up the tools	P1. Clean/Wash all the used tools properly P2. Dry tools P3. Cover all the tools P4. Store them properly in tool box
CU-2. Clean up the job site	P1. Remove all polythene sheets P2. Clean floor using cotton cloth/water/kerosene oil P3. Clean all fixtures affected by paint drops P4. Dump all wastage in the designated area properly
CU-3. Store the material	P1. Store remaining materials properly P2. Ensure safe storage of material P3. Cover all materials with polythene sheets completely

Knowledge and Understanding:

The student must be able to demonstrate the knowledge and understanding required to carry out tasks covered in this competency standard. This includes the knowledge of:

- Methods of washing tools and equipment.
- Methods of maintaining tools and equipment.
- General knowledge of overhauling techniques.

Critical Evidence(s) required:

The candidate needs to produce the following critical evidence(s) to be competent in this competency standard:

- Perform washing of tools
- Oiling of equipment used
- Overhauling



Tools/Equipment/Manuals Required:

Sr. #	Items
1.	Water
2.	Kerosene Oil
3.	Brush
4.	Roller
5.	Thinner
6.	Dusting cloth/cotton waste
7.	Scraper
8.	Lubricant oil
9.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap



0732P&WC07. Dispose of waste materials

Overview:

This competency standard covers the skills and knowledge required for disposing of waste which can be a sanitary landfill or any other locally used method.

Competency Units	Performance Criteria
CU-1. Characterize the final waste	P1. Understand the composition of waste. P2. Differentiate between different types of waste P3. Sort out different types of waste.
CU-2. Dispose of final waste	P1. Collect the sorted waste material. P2. Perform disposal of waste material as per standard procedure / designated area

Knowledge and Understanding:

The student must be able to demonstrate the knowledge and understanding required to carry out tasks covered in this competency standard. This includes the knowledge of:

- Composition of waste.
- Methods of collection of waste
- Methods of Sort the waste
- Which disposing method is appropriate for which type of waste

Critical Evidence(s) required:

The candidate needs to produce the following critical evidence(s) to be competent in this competency standard:

- Explain the composition of waste.
- Identify whether a separate pre-collection or collection has occurred
- Sort the waste

Tools/Equipment/Manuals Required:

- Available material in Processes used to Recycle plastics with low energy input.



- Available material on Methods of Transformation of biodegradable waste into compost and biogas



13. List of tools/equipment's/materials

Sr. #	Items
•	Consumable tools
1.	Paint kettle and paint can
2.	Paint roller set: paint roller, sleeve, and tray
3.	Paintbrushes (Flat Paintbrushes, Angled Paintbrushes, Size 0.5 to 6 inches)
4.	Radiator brush
5.	Scraper
6.	Paint roller extension pole
7.	Plastic bucket and sponge
8.	Ready-mixed filler and filling knife
9.	Flat scraper tool
10.	Paint bucket
11.	Wall stencil
12.	Grinding stone
13.	Paint removal stripper
14.	Marker pen or pencil
15.	Wire brush
16.	Paintbrush comb
17.	Sharpener
18.	Foot rule (1' to 4')
•	Property (Permanent) tools
19.	Tape measure
20.	Paint sprayer
21.	Heat gun
22.	Putty knife
23.	Work light
24.	Wet/dry vacuum
25.	Screwdriver (Flat, Philip)
26.	Electric Tester
27.	Scaffolding (Wooden Ladder, Steel folding ladder)



Sr. #	Items
28.	Paint kettle and paint can opener (flat head screwdriver)
29.	Stool
30.	Cupboard
•	Consumable material
31.	Enamel paint
32.	Emulsion paint (Plastic, Mat, Vinyl)
33.	Distemper
34.	Turpentine oil
35.	Kerosene oil
36.	Petrol
37.	Flaxseed oil
38.	Varnish
39.	Copper sulfate (Neela Thotha)
40.	Painting colors(Pigments)
41.	Acrylic
42.	Glue
43.	Weather shield
44.	Thinner
45.	Fine sandpaper (40, 120,150, 250 No.)
46.	Painter tape
47.	Cloth malmal
48.	Chalk powder
49.	Zinc powder
50.	Gypsum powder
51.	Cotton waste
52.	Rubber
53.	Soap
54.	Thread
•	Safety Precaution Tools and Material
55.	Painter's Dungaree
56.	Knee pads



Sr. #	Items
57.	Safety goggles
58.	Safety boots
59.	Gloves
60.	Respirator (mask)
61.	Face Mask
62.	Helmet
63.	Full body harness
64.	First aid box