



National Vocational Qualification of Building Painting & Decorating

Level - 3
Painter



National Vocational & Technical Training Commission,
Islamabad



ACKNOWLEDGEMENT

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-3 Painter). 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 3
“Building Painting & Decorating”
(PAINTER)

NVQF Level 3

DACUM Facilitator:

NAVTTTC Coordinator:

Quality Assurance:



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1. Introduction

Pakistan is one of the largest skilled labor suppliers in the Middle East. According to the new labor laws and labor requirements, many skilled labors 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 – 3 Painter	300

6. Qualification development committee

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

Sr. No	Name	Designation & Organization
1.	Muhammad Aasim	Assistant Director, NAVTTC Coordinator, Islamabad
2.	Muhammad Nasir Khan	DACUM Facilitator
3.	Engr. Rebab Maria Mahmood	Site Engineer, IMC



Sr. No	Name	Designation & Organization
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 to 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 Private Limited, Abbottabad
6.	Engr. Ihsanullah Shah	Senior Sub Engineer, University of Haripur



Sr. No	Name	Designation & Organization
		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 are packaged as per the following:

LEVEL – 3

1. Occupational Health, Safety and Environment at Work
2. Prepare the work site
3. Paint Internal Walls and Roofs
4. Paint Roofs and Gypseous decorations
5. Manipulate Decorations with Paste



LEVEL – 3

6. Paint the Building from outside
7. Paint Iron Doors and Windows
8. Paint Wooden Doors and Windows
9. Perform Paint Reparation Works
10. Use Computer Applications

11. Occupations of painter

Sr. No.	Competency Standards	Level	Theory hours	Practical hours	Total contact hours	Total Credit hours
1	Occupational Health, Safety and Environment at Work	3	10	30	40	4
2	Prepare the work Site	3	10	30	40	4
3	Paint Internal Walls and Roofs	3	20	90	110	11
4	Paint Roofs and Gypseous Decorations	3	20	90	110	11
5	Manipulate Decorations with Paste	3	10	60	70	7
6	Paint the Building from outside	3	10	60	70	7
7	Paint Iron Doors and Windows	3	10	30	40	4
8	Paint Wooden Doors and Windows	3	10	30	40	4
9	Perform Paint Reparation Works	3	10	30	40	4
10	Use Computer Applications	3	10	30	40	4
	Total		120	480	600	60



12. Competencies

1022OHS02. Occupational 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. Identify physical hazards (risk of slip, trip, fall, etc.) at the worksite. P2. Turn off all the fans P3. Avoid the use of fire and cigarettes during enamel paint P4. 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
CU-3. Ensure electricity points at the workplace	P1. Check the earthing of power equipment. P2. Determine the safest supply and route for electrical supply. P3. Check and select leads & switchboards accordingly. P4. Check the overhead electrical wires (10 feet away from the worker).
CU-4. Carry out basic first aid treatment	P1. Identify items of first aid kit. P2. Check the expiry date of medicines. P3. Perform first aid treatment for a mock bone fracture. P4. Perform first aid treatment to mock accidental bleeding. P5. Perform first aid treatment in simulated conditions for eye injury. P6. Perform first aid treatment for a mock electrical shock



Competency Units	Performance Criteria
CU-5. Perform fire fighting	P1. Identify source of fire. P2. Raise fire alarms. P3. Select appropriate fire extinguishers. P4. Check expiry of fire extinguisher. P5. Check wind direction. P6. Locate emergency exits.

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.	First Aid Kit
3.	Extinguisher
4.	Fire bucket with sand
5.	Fire alarm
6.	Kerosene Oil
7.	Brush
8.	Roller
9.	Thinner
10.	Dusting cloth/cotton waste
11.	Scraper
12.	Lubricant oil
13.	PPEs • Gloves • Goggles • Shoes • Mask • Apron • Safety Cap



0732P&WC08. Prepare work site

Overview:

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

Competency Units	Performance Criteria
CU-1. Clean the work site	P1. Clean the wall using broom/brush P2. Scrap the plaster splashes using a scraper P3. Ensure the cleaning of floor from scrapped material P4. Ensure material dumped properly at designated place P5. Ensure polythene sheet under the wall to be paint properly
CU-2. Assemble the scaffold	P1. Arrange mobile scaffolding/ladder with adequate height up to 6 feet P2. Perform overhauling of mobile scaffolding/ladder P3. Check all welds and joints regularly P4. Check antiskid/rubber protection regularly if required
CU-3. Supply required tools	P1. List the required painting tools P2. Check the tools required as per the job P3. Arrange the tools as per requirement
CU-4. Check availability of required materials	P1. List the required painting materials P2. Check the painting material required as per the job P3. Check the availability of the required materials
CU-5. Cover unpainted places with appropriate material	P1. Locate unpainted places P2. Select the appropriate covering material (masking tape, polythene sheet) to cover the unpainted areas P3. Cover the unpainted places

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 and Equipment Required:

- Cleaning tools
- Scaffolding/ladder
- Polythene sheets
- Masking tape



0732P&WC09. Paints internal walls and roofs

Overview:

This competency standard covers the skills and knowledge required to perform Painting of internal walls and roofs.

Competency Units	Performance Criteria
CU-1. Perform scraping of walls and roofs with stone	P1. Clean the walls and roofs. P2. Cover the items with a polythene sheet to avoid paint drops. P3. Cover the floor with a drop cloth for stability and durability. P4. Scrape off walls and roofs that are flaking off. P5. Use sandpaper (different grades) to smoothen the surface if required.
CU-2. Perform washing of walls and roofs with water	P1. Gather cleaning supplies. P2. Wash walls and roofs with water. P3. Perform spray on roof and walls with the cleaning solution P4. Check the wall to be dried. P5. Rinse off with clean water.
CU-3. Perform filling of cracks with paste	P1. Mark the holes of the crack with a pencil. P2. Vacuum the plaster crumbs out of all the holes. P3. Spray conditioner into each hole. P4. Spray the edges of the crack. P5. Wipe away any excess adhesive with a wet sponge.
CU-4. Perform scraping of excess parts	P1. Clean the excess parts. P2. Scrape away drips with a plastic putty knife. P3. Use oil to soften the paint. P4. Clean off all the traces with a mixture of dish soap and warm water.
CU-5. Perform painting of walls and roofs with a	P1. Use buckets of standard white primer. P2. Apply an even basecoat onto the wall.



Competency Units	Performance Criteria
basecoat	P3. Maintain thickness of basecoat for consistency and smoothness. P4. Let the primer dry completely. P5. . P6. Keep your work area ventilated by opening a window.
CU-6. Perform scrapping of walls and roofs after the basecoat	P1. Use a scraper or sandpaper to remove any loose, cracked, or peeling paint from the damaged area. P2. Use a putty knife; apply a thin layer of patching material to the damaged area. P3. Use sandpaper to smooth the patched area to make it even with the surface.
CU-7. Cover walls with paint	P1. Choose the right type of paint. P2. Mix the paint thoroughly with the help of an electric paint mixer or handheld stirrer. P3. Apply paint on the wall with standard procedure. P4.
CU-8. Scrape the paste	P1. Use a scraper or sandpaper to remove any loose, cracked, or peeling paint from the damaged area. P2. Use a putty knife; apply a thin layer of patching material to the damaged area. P3. Use sandpaper to smooth the patched area to make it even with the surface
CU-9. Perform subsequent layers of paint on walls and roofs as required	P1. Apply additional paint coats on the walls P2. Start with the outer edges of the wall and work the way inward. P3. Ensure minimum 2-4 hours between coats to give the fresh paint time to dry. P4. Allow the paint to be set up overnight. P5. Check for thin spots, lumps, or other problems P6. Cure completely for 24-48 hours. P7. Remove the painter's tape.



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:

- Define scraping
- Define the purpose of scraping
- Knowledge of scraping and painting tools
- Define stability and durability
- Define the purpose of the basecoat
- Define the term flaking off
- Knowledge about the washing of walls and roofs
- Knowledge of different techniques of painting
- Knowledge of the paint cure process

Critical Evidence(s) required:

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

- Purpose of basecoat
- Purpose of scraping
- Knowledge of cracks, lumps, and other problems

Tools and Equipment Required:

Sr. #	Items
1.	Paint
2.	Ladder
3.	Wire Brush
4.	Air pump
5.	Spray gun
6.	Roll
7.	Scraper
8.	Polythene Sheet



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Sr. #	Items
9.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap
10.	Sponge
11.	Knives
12.	Adhesive tapes



0732P&WC010. Paint roof and gypseous decorations

Overview:

This competency standard covers the skills and knowledge required to paint roof and gypseous decorations.

Competency Units	Performance Criteria
CU-1. Perform scraping of gypseous with hard sandpaper	P1. Prepare the work area P2. Cover the nearby area to avoid scrap dust accumulation. P3. Gather scraping tools P4. Prepare gypsum board surface. P5. Remove old paints and finishes (if any). P6. Scrape off the gypseous roof with hard sandpaper
CU-2. Perform painting of gypseous with base coat	P1. Select the correct level of gypsum board P2. Cover the visible joints or screws and sand them P3. Select the appropriate base coat. P4. Select the appropriate tools/brushes P5. Apply the base coat using the proper technique P6. Ensure base coat to dry for minimum 4 hours to settle. P7. Ensure appropriate ventilation
CU-3. Perform painting of gypseous with plastic first coat	P1. Check for small repairs if needed P2. Select appropriate paint. P3. Use proper painting techniques and tools P4. Mix the paint thoroughly for uniform texture. P5. Apply first coat of paint P6. Start cutting in around the edges.
CU-4. Handle gypseous imperfections with filling material	P1. Identify the gypseous imperfections P2. Apply the filling material to uniform the imperfections P3. Remove excess filling material P4. Ensure dryness of surface
CU-5. Conduct paint on roof with semi-gloss plastic paint or semi-	P1. Select appropriate paint P2. Select appropriate tools P3. Apply semi-gloss plastic paint or semi-gloss oil-based



Competency Units	Performance Criteria
gloss oil-based paint if patina	paint P4. Let the primer dry completely.
CU-6. Perform patina of the gypseous roof as the required style	P1. Identify the patina requirements of gypseous roof P2. Select patina P3. Select the appropriate tool P4. Apply patina P5. Check uniformity
CU-7. Maintain cover of plain gypseous with paste	P1. Identify the plain gypseous areas to cover P2. Apply the paste P3. Remove excess paste P4. Let the gypseous paste dry completely
CU-8. Perform scraping of paste with soft sandpaper	P1. Gather scraping tools P2. Sand the edges if needed P3. Use sandpaper 220 to smooth the surface
CU-9. Perform paint of gypseous with a plastic final coat by a roll or a spray gun	P1. Select the appropriate paint P2. Select the appropriate tools P3. Apply the plastic final coat P4. Let the plastic paint dry completely

Knowledge and Understanding:

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

- Define scrapping and its purpose
- Purpose/use of gypseous roof
- Describe the proper use and handling of equipment
- Explain the proper use of suitable PPEs
- Explain the types of sandpapers
- Purpose of base coat/ primer
- Types of paint



Critical Evidence(s) required:

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

- Types of sandpaper
- Types of paint
- Gypseous roof purpose/use

Tools and Equipment Required:

Sr. #	Items
1.	Sandpaper (180 & 220)
2.	Brush
3.	Ladder
4.	Spray Gun
5.	Roller
6.	Polythene sheet
7.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap
8.	Water



0732P&WC011. Manipulates decorations with paste

Overview:

This competency standard covers the skills and knowledge required to manipulate decorations with paste.

Competency Units	Performance Criteria
CU-1. Fill cracks with appropriate material	P1. Check and clean the cracked portion P2. Select the appropriate material and tools to fill the crack P3. Moisten the cracked surface before applying paste P4. Press the crack fill paste with putty knife or spatula. P5. Level the surface with putty knife P6. Check the level and smoothness of the surface P7. Avoid cavity or bubble formation.
CU-2. Scrubs excess parts (softening)	P1. Gather scrubbing tools P2. Scrub off excess paste
CU-3. Paint the desired area with an appropriate basecoat	P1. Select the appropriate base coat/primer as per requirement P2. Select the appropriate tools P3. Apply the primer/base coat P4. Leave the base coat/primer to dry P5. Ensure ventilation
CU-4. Manipulates the required style of decoration with paste	P1. Check the style of decoration P2. Apply the paste to uniform the style of decoration P3. Remove excess paste P4. Let the paste dry complete
CU-5. Paint desired place with semi-gloss double base coat	P1. Select the appropriate semi-gloss base coat as per requirement P2. Select the appropriate tools P3. Apply semi-gloss double base coat P4. Ensure dryness of semi-gloss base coat P5. Ensure ventilation
CU-6. Paint desired place	P1. Select the appropriate color



Competency Units	Performance Criteria
with the required color	P2. Apply color in the desired place P3. Ensure color correction (if needed)
CU-7. Polish desired area as required	P1. Select appropriate polish P2. Select appropriate polishing tools P3. Apply the polish to the desired area

Knowledge and Understanding:

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

- Enlist the PPEs
- Proper use of tools and equipment.
- Types of crack.
- How to fill cracks.
- How to handle the style of decoration
- Purpose of base coat/primer

Critical Evidence(s) required:

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

- Proper filling of cracks.
- Uniform style of decoration.
- Uniformity in paint.

Tools and Equipment Required:

Sr. #	Items
1.	Sandpaper
2.	Brush
3.	Ladder
4.	Putty Knife
5.	Spatula



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6.	Polythene Sheet
7.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap
8.	Water



0732P&WC012. Paint the building from outside

Overview:

This competency standard covers the skills and knowledge required to paint the building from outside.

Competency Units	Performance Criteria
CU-1. Scrape walls of building with stones	P1. Remove the obstacles Clean the walls P2. Gather scrapping tools P3. Remove old paints and finishes (if any). P4. Scrape off the walls with stones P5.
CU-2. Wash the building with water	P1. Cover doors, windows, and lights P2. Gather washing supplies. P3. Wash the building from top to bottom.
CU-3. Paint the walls with the basecoat	P1. Use sandpaper to smoothen the surface if required P2. Select the appropriate basecoat/primer as per requirement P3. Select the appropriate tools P4. Apply the base coat/primer P5. Leave the base coat/primer to dry
CU-4. Fill the cracks with paste	P1. Locate the holes in the crack. P2. Apply paste P3. Remove excess paste
CU-5. Splash the external walls according to the required size	P1. Recognize sizes as per requirement P2. Focus on the required size P3. Select the appropriate tools P4. Mix the paints as per requirement
CU-6. Paint external walls as required	P1. Select the appropriate paint P2. Select the appropriate tools P3. Apply paint starting from top to bottom.



Knowledge and Understanding:

The candidate must be able to demonstrate underpinning knowledge and understanding required to carry out the tasks covered in this competency standard. Therefore, trainees must be able to:

- Describe proper use and handling of equipment/tools
- Explain the proper use of suitable PPEs
- Selection of paint according to weather conditions
- How to fill cracks properly
- Purpose of Primer/ base coat

Critical Evidence(s) required:

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

- Selection of paint
- Basecoat/primer purpose
- Weather conditions

Tools and Equipment Required:

Sr. #	Items
1.	Stone
2.	Brush
3.	Ladder
4.	Spray Gun
5.	Roller
6.	Polythene Sheet
7.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap
8.	Water



0732P&WC013. Paint iron doors and windows

Overview:

This competency standard covers the skills and knowledge required to perform painting of iron doors and windows.

Competency Units	Performance Criteria
CU-1. Perform scraping of iron doors and windows	P1. Clean the doors and windows. P2. Cover items with a polythene sheet. P3. Cover the floor with a drop cloth for stability and durability. P4. Wipe down the whole surface of iron doors and windows to eliminate any dampness. P5. Scrape off doors and windows to eliminate old paint and uncover rusted spots. P6. Use a wire brush to eliminate the residue with an old paintbrush.
CU-2. Perform painting of doors and windows with basecoat/primer	P1. Choose appropriate basecoat/primer. P2. Ensure humidity level is less than 80%. P3. Apply basecoat/primer on doors and windows P4. Ensure dryness of primer for minimum 3-4 hours.
CU-3. Perform scraping of iron doors and windows after basecoat	P1. Wipe down the affected surface of iron doors and windows after basecoat. P2. Scrape off the affected portion of doors and windows after basecoat. P3. Use sandpaper for smoothness.
CU-4. Cover doors and windows with iron putty	P1. Apply steel putty on doors and windows. P2. Ensure to fill up all the holes with steel putty.
CU-5. Perform scraping of doors and windows after paste	P1. Wipe down the affected surface of the steel doors and windows after steel putty. P2. Scrape off the affected portion of doors and windows



Competency Units	Performance Criteria
	aftersteel putty. P3. Use sand softly for smoothness.
CU-6. Perform painting of doors and windows with a black basecoat for anti-rust or patina	P1. Apply black base on doors and windows for a unique pattern. P2. Use a black basecoat to avoid rust. P3. Ensure dryness of primer for minimum 3 to 4 hours.
CU-7. Perform scrapping of doors and windows after the basecoat with a soft sandpaper	P1. Wipe down the affected surface of the iron doors and windows after the black base. P2. Scrape off the affected portion of doors and windows after the black base. P3. Use sand on the door slowly and lightly with fine sandpaper.
CU-8. Perform mixing of required paint if its anti-rust	P1. Collect and inspect the required paint. P2. Make sure that it's anti-rust. P3. Mix the required paint with water.
CU-9. Perform splashing with anti-rust with a spray gun	P1. Select the spray gun. P2. Apply the proper anti-rust coating against the deteriorating effects that occur from exposure to water. P3. Use of proper splashing of anti-rust by spray gun to prevent water molecules from reaching the surface so it cannot get oxygen.
CU-10. Patinas doors and windows using tools as required	P1. Select the appropriate patinas. P2. Apply the patina to the iron doors and windows. P3. Make sure that all the cracks are filled up by patina.
CU-11. Perform polishing doors and windows with lacquer	P1. Select the correct lacquer. P2. Spray solvent-based furniture cleaner to make lacquer shiny. P3. Apply lacquer on iron doors and windows, P4. Leave it to dry completely. P5. Use sandpaper softly before applying the subsequent coat.



Knowledge and Understanding:

The candidate must be able to demonstrate underpinning knowledge and understanding required to carry out the tasks covered in this competency standard. Therefore, trainees must be able to:

- Define scraping
- Define the purpose of scraping
- Define patinas.
- Define the purpose of sandpaper
- Knowledge of scraping and painting tools
- Define stability and durability
- Define the purpose of basecoat
- Define the term flaking off
- Knowledge of black base painting.
- Knowledge of lacquer.

Critical Evidence(s) required:

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

- Purpose of sandpaper
- Purpose of scraping
- Knowledge about splashing of anti-rust by spray gun.

Tools and Equipment Required:

Sr. #	Items
1.	Scaffold
2.	Ladder
3.	Wire Brush
4.	Air pump
5.	Spray gun
6.	Roll
7.	Scraper



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Sr. #	Items
8.	Polythene Sheet
9.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap
10.	Sponge
11.	Knives
12.	Adhesive tapes



0732P&WC014. Paint wooden doors and windows

Overview:

This competency standard covers the skills and knowledge required to perform Painting of wooden doors and windows.

Competency Units	Performance Criteria
CU-1. Perform scraping of doors and windows	P1. Clean doors and windows. P2. Cover floor with a drop cloth for stability and durability. P3. Cover fixtures with polythene sheet to avoid paint drops. P4. Remove hardware like knob and any locks on door. P5. Open doors and windows to ensure ventilation. P6. Select the required tools. P7. Scrape off doors and windows to eliminate old paint. P8. Clean the doors and windows and fill any cracks with wooden putty.
CU-2. Manipulate imperfections with filling material according to paint type	P1. Inspect type of door or window. P2. Choose a painting technique according to the type of door or window. P3. Choose type of paint. P4. Choose gloss wisely to avoid imperfections. P5. Inspect any cracks or holes. P6. Sand off any paint left before.
CU-3. Perform painting of doors and windows with base coat according to paint type	P1. Select appropriate tools according to the paint type. P2. Use a paint roller and long, smooth, vertical strokes to cover the panels of door. P3. Apply the base coat to the doors and windows before applying a topcoat. P4. Ensure dryness of base coat for minimum 2-4 hours.
CU-4. Perform scraping of doors and windows after basecoat	P1. Wipe down the affected surface of wooden doors and windows after basecoat. P2. Scrape off affected portion of doors and windows. P3. Use sandpaper for smoothness.



Competency Units	Performance Criteria
CU-5. Perform painting of doors and windows with required color according to standard measurements	P1. Select color of paint according to standard measurements. P2. Cover hinges and anything else that does not need to be painted. P3. Apply paintbrush on the recessed areas of panels for even coverage. P4. Check edges of panel to make sure paint covers evenly
CU-6. Perform scrapping of doors and windows with a soft sandpaper	P1. Wipe down affected surface of wooden doors and windows after painting. P2. Scrape off affected portion of doors and windows. P3. Use sandpaper on it softly for smoothness.
CU-7. Perform painting doors with lacquer (Oak wood)	P1. Check lacquer on wooden doors. P2. Use a damp rag to remove sandpaper dust. P3. Apply lacquer to the Oak (wood). P4. Ensure dryness of paint on wooden door for minimum 48 hours.
CU-8. Perform painting on wooden doors using cotton ()	P1. Select and inspect the cotton. P2. Apply sand down wood to remove the top layer. P3. Select appropriate color. P4. Apply primer to door as per standard procedure. P5. Apply cotton paint on doors. P6. Let it dry completely.

Knowledge and Understanding:

The candidate must be able to demonstrate underpinning knowledge and understanding required to carry out the tasks covered in this competency standard. Therefore, trainees must be able to:

- Define scraping
- Define the use of sandable fillers
- Knowledge of manipulation imperfections with paste
- Knowledge of types of paint



- Knowledge of techniques of paint
- Knowledge of color selection
- Knowledge about use of base coat

Critical Evidence (s) required:

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

- Knowledge about using Oak and cotton (wooden)

Tools and Equipment Required:

Sr. #	Items
1.	Sandpaper
2.	Painter tape
3.	Wire Brush
4.	Drop cloth
5.	Paint
6.	Cotton
7.	Lacquer
8.	Roller
9.	Scraper
10.	Primer
11.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap
12.	Sponge
13.	Paintbrush
14.	Sandable fillers



0732P&WC015. Perform paint reparation works

Overview:

This competency standard covers the skills and knowledge required to perform surface preparation and painting for repair of damaged surfaces and facilities.

Competency Units	Performance Criteria
CU-1. Determine required materials and tools	P1. Select appropriate materials as per requirement P2. Select different brushes and rollers when required P3. Wash the tools P4. Let the tools dry. P5. Select an adequate amount of paint when required for the painter P6. Select repair paste as per requirement P7. Arrange scaffolding/ladder where required
CU-2. Clean the work site	P1. Clean and prepare work areas P2. Remove obstacles if any P3. Cover doors, windows, and lights P4. Cover the floor with a drop cloth for stability and durability.
CU-3. Remove old paints	P1. Clean the wall P2. Remove old paint (if any) using proper techniques P3. Clean the floor P4. Dump the residual material properly in a designated area
CU-4. Scrape the place that will be paint	P1. Gather scrapping tools P2. Scrape off the areas that are flaking off P3. Apply sandpaper to smoothen the surface if required.
CU-5. Fill cracks with the appropriate material	P1. Select appropriate material P2. Locate holes or cracks. P3. Apply paste P4. Remove excess paste
CU-6. Apply paint paste	P1. Select appropriate paint paste P2. Select appropriate tools



Competency Units	Performance Criteria
	P3. Check the place to be paint P4. Apply paint paste
CU-7. Scrap the paste	P1. Gather scrapping tool as per requirement P2. Scrape the paste where needed P3. Remove excess paste
CU-8. Paint the place with first coat	P1. Select the appropriate paint. P2. Apply an even-first coat into affected area P3. Check the first coat for smoothness and consistency. P4. Keep work area ventilated by opening a window.
CU-9. Clean the place after the emery	P1. Gather the cleaning tools P2. Clean the place after emery where needed
CU-10. Paint place with double coats of the color	P1. Select the appropriate color P2. Apply a double coat of the desired color P3. Ensure color correction

Knowledge and Understanding:

The candidate must be able to demonstrate underpinning knowledge and understanding required to carry out the tasks covered in this competency standard. Therefore, a trainee must be able to:

- Describe proper use and handling of equipment/tools
- Explain the proper use of suitable PPEs
- Selection of paint according to the requirement
- Explain painting techniques
- How to fill cracks properly
- Purpose of Primer/ base coat

Critical Evidence(s) required:

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

- Selection of paint
- Basecoat / primer purpose



- Painting techniques

Tools and Equipment Required:

Sr. #	Items
1.	Stone
2.	Brush
3.	Ladder
4.	Spray Gun
5.	Roller
6.	Polythene sheet
7.	PPEs - Gloves - Goggles - Shoes - Mask - Apron - Safety Cap
8.	Water



0610I&C01 Use computer applications

Overview:

This competency standard covers the skills and knowledge required to perform Painting of wooden doors and windows.

Competency Units	Performance Criteria
CU-1. Install and remove software	P1. Select software to be installed P2. Follow installation instructions P3. Delete unrequired software
CU-2. Demonstrate Basic IT Skills	P4. Type text and use major commands such as printing, editing, creating tables and graphs etc. P5. Generate office reports using appropriate computer applications P6. Use internet for sending/receiving emails and connecting through social
CU-3. Use Operating System	P7. Identify input & output peripherals. P8. Explore desktop environment. P9. Create and open folders/directories. P10. Copy files, folder/ directories to different location (Hard drive, external storage, cloud) P11. Move files, folder/ directories to different location (Hard drive, external storage, cloud) P12. Rename files and directories/folder P13. Search files / folder/directories against various search criterion (File name, date, text etc.)

Knowledge and Understanding:

The candidate must be able to demonstrate underpinning knowledge and understanding required to carry out the tasks covered in this competency standard. Therefore, trainee must be able to:

- Basic knowledge of system usage
- Features and functions of computer



- Purpose, use and functions of applications

Critical Evidence (s) required:

The candidate must present evidence of practical observations showing their ability to perform Computer Application:

- Create, open and retrieve documents using customized basic settings.
- Format documents by creating tables and adding text, objects and images.
- Save and prints documents



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')
19.	Polythene Sheet
•	Property (Permanent) tools
20.	Tape measure
21.	Paint sprayer
22.	Heat gun
23.	Putty knife
24.	Work light
25.	Wet/dry vacuum
26.	Screwdriver (Flat, Philip)
27.	Electric Tester



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



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