

National Occupational Skill Standard (NOSS)

Occupational Title : Building Painter

Level : 2

Sector : Construction

Sub - Sector : Painting Works

NOSS ID/NSCO ID :

ISCO NO :



Council for Technical Education and Vocational Training
NATIONAL SKILL TESTING BOARD

Madhyapur Thimi-17, Sanothimi, Bhaktapur, Nepal

Revised: 26-01-2021 (13-10-2077)



DACUM Panel:

| S. No. | Name | Designation | Organization |
|---------------|--------------------------------|--------------------|--|
| 1. | Mr. Nilkantha Thakuri | Member | BLS Store, Harisiddhi, Lalitpur |
| 2. | Mr. Raj Kumar Tamang | Member | Ananaya Enterprises, Harisiddhi, Lalitpur |
| 3. | Mr. Krishna Bahadur Budhathoki | Member | K.P. Builders, Pokharichauri, Kavre |
| 4. | Mr. Ram Sharan Gautam | Member | K.P. Builders, Pokharichauri, Kavre |
| 5. | Mr. Basudev Khatri | Member | Associates synergy Nepel, Dhumbarahi, Kathmandu. |
| 6. | Mr. Dilip Basnet | Member | Unique Home Suppliers, Dhobighat, Lalitpur |
| 7. | Mr. Sudesh Lama | Member | Unique Home Suppliers, Dhobighat, Lalitpur |
| 8. | Mr. Nirajan Prasad Subedi | Member | Khakre-2, Dhading. |
| 9. | Mr. Lachhuman Chaulagain | Member | Barganchi Nirman Sewa, Pokharichauri, Kavre. |
| 10. | Mr. Pramod Jaiswal | Member | Balaju Baipas, Kathmandu |

DACUM Facilitator/Co Facilitator

Mr. Tulsi K.C., Sr. Skill Testing Officer, NSTB, Sanothimi, Bhaktapur

Mr. Suresh Maharjan, Skill Testing Officer, NSTB, Sanothimi, Bhaktapur

DACUM Workshop on 20 & 21 February 2014

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Verification Panel:

| No | Name | Designation | Organization |
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| 1. | Mr. Jitendra Mishra | Technician | Unique Home Suppliers Pvt. Ltd., Kathmandu |
| 2. | Mr. Madhu Sudhan Chand | Technician | National Skill Testing Board, Sanothimi, Bhaktapur |
| 3. | Mr. Ram Sharan Gautam | Painter | K.P.Builders, Pokharichauri, Kavre |
| 4. | Mr. Krishna Bahadur Budhathoki | Painter | K.P.Builders, Pokharichauri, Kavre |
| 5. | Mr. Maheshwor Prasad Chaudhary | Painter | Koteshwor, Kathmandu |
| 6. | Mr. Dilli Ram Subedi | Painter | Beshigaun, Jorpati, Kathmandu |
| 7. | Mr. Ramji Subedi | Painter | Beshigaun, Jorpati, Kathmandu |
| 8. | Mr. Rajkumar Tamang | Painter | Ananaya Enterprises, Harisiddhi, Lalitpur |
| 9. | Er. Ramesh Koju | Engineer | Blue Sky Traders, Tinkune, Kathmandu |

DACUM Facilitator/Co Facilitator :

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Mr. Suresh Maharjan, Skill Testing Officer, NSTB, Sanothimi, Bhaktapur

Customized DACUM workshop on 15 September, 2014



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The National Occupational Profile Developed by:

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| 2. | Dr. Kul Bahadur Basnet | Director | National Skill Testing Board Sanothimi, Bhaktapur |
| 3. | Mr. Ramji Shrestha | Member | Bule Sky Traders & Builder Tinkune, Kathmandu |
| 4. | Mr. Maheshwar Prasad Chaudhary | Member | Associates Synergy Nepal Dhumberahi, Kathmandu |
| 5. | Mr. Dhana Prasad Bhurtel | Member | Yeti Airlines Gaucharan, Kathmandu |
| 6. | Mr. Pradip Raj Dali | Member-Secretary | Construction Technical Sub Committee National Skill Testing Board, Sanothimi, Bhaktapur |
| 7. | Mr. Tulsi K.C. | Member | Sr.Skill Testing Officer, National Skill Testing Board Sanothimi, Bhaktapur |
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The National Occupational Skill Standard Developed by:

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| 4. | Mr. Maheshwar Prasad Chaudhary | Member | Mansapuria Nirman Sewa Madhyapur Thimi, Bhaktapur |
| 5. | Mr. Sagar Man Lopchan | Member | Asian Paints Nepal Balkumari, Lalitpur |
| 6. | Mr. Surya Prasad Adhikari | Member | National Skill Testing Board Sanothimi, Bhaktapur |
| 7. | Mr. Bharat Paudel | Member | Su-Sandesh Enterprises Kalanki, Kathmandu |
| 8. | Mr. Huparaj Magar | Member | Nepal Army Vocational Training Institute Tripureshwor, Kathmandu |
| 9. | Mr. Manoj Ghimire | Member | Berger Paints Nepal Tinkune, Kathmandu |
| 10. | Ms. Nishi Manandhar Shrestha | Member-Secretary | Construction Technical Sub Committee National Skill Testing Board, Sanothimi, Bhaktapur |
| 11. | Mr. Tulsi KC | Member | Sr.Skill Testing Officer, National Skill Testing Board Sanothimi, Bhaktapur |
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Recommended by Construction Technical Sub Committee: 29 February 2020 (17 Falgun 2076)



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The National Occupational Skill Standard Revised by:

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Recommended by Construction Technical Sub Committee: 26 January 2021 (13 Magh 2077)



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| | |
|---|---|
| 1 | <p>Occupational Title: Building Painter Level: 2</p> |
| 2 | <p>Job Description: Building Painter, L-2, applies paints on masonry, wooden, metallic surface and pastes wallpaper on interior walls and ceiling.</p> |
| 3 | <p>UNITS OF COMPETENCY:</p> <ol style="list-style-type: none"> 1. Apply paints on masonry surface. 2. Apply paints on wooden surface. 3. Apply paints on metallic surface. 4. Apply wallpaper on interior walls and ceiling. 5. Perform communication. 6. Develop professionalism. <p>*Note: Units 5 and 6 are not for testing purpose.</p> |
| 4 | <p>Qualifying Notes/Prerequisites:</p> <ul style="list-style-type: none"> • Physical Requirements: Sound health • Entry Requirements: As per NSTB rules. <p>Additional Information:</p> <ul style="list-style-type: none"> • Assessment Types: Performance test only. • Assessment Duration: 4 to 6 Hours (Single Competency) 8 to 10 hours (All Competency) • Recommended Group Size: 6 to 8 candidates |



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| 5 | Unit No: 1 Unit Title: Apply paints on masonry surface | Unit code: |
| | Elements of competency | Performance standards |
| | 1.1 Prepare tools, equipment and materials | 1.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 1.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 1.1.3 Materials collected and prepared in accordance with task requirements. |
| | 1.2 Prepare estimate | 1.2.1 Surface type and condition of surface inspected for work. 1.2.2 Surface to be painted measured and recorded. 1.2.3 Cost of paints determined based on quantity and quality. 1.2.4 Cost of labor, tools and materials determined based on painting area. |
| | 1.3 Prepare masonry surface for painting | 1.3.1 Scaffold firmly erected and fixed at correct location to withstand load of materials as well as two persons. 1.3.2 Hanging and removable items removed and placed in safe place. 1.3.3 Movable and light furniture's placed at center of room and covered. 1.3.4 Floor area and outer surrounding area cleared and covered with covering materials . 1.3.5 Masonry surface scrubbed, cleaned, washed and foreign materials removed from surface. 1.3.6 Weathered old paint removed from surface without damaging masonry surface. 1.3.7 Cracks, holes and voids on masonry surface filled uniformly. 1.3.8 Surface sanded to smoothened uneven and rough surface. 1.3.9 Sanded surface wiped and dust removed. |
| | 1.4 Apply waterproof | 1.4.1 Waterproof mixed to specified ratio in accordance with manufacturer specifications and recommendations. 1.4.2 Waterproof paint applied uniformly to achieve required level of opacity and sheen in accordance with manufacturer specifications and recommendations. |



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| | <p>1.5 Apply undercoat</p> | <p>1.5.1 Wall putty applied evenly covering area as recommended by manufacturer specifications.</p> <p>1.5.2 Primer mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>1.5.3 Primer applied uniformly to achieve required level of opacity and finish in accordance with manufacturer specifications and recommendations.</p> <p>1.5.4 Surface sanded after applying each coat.</p> |
| | <p>1.6 Apply topcoat</p> | <p>1.6.1 Topcoat paint mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>1.6.2 Topcoat paint applied uniformly to achieve required level of opacity, finish and sheen in accordance with manufacturer specifications and recommendations.</p> <p>1.6.3 Stains of paint wiped from window glasses, floors and switch sockets.</p> |
| | <p>1.7 Clean work area</p> | <p>1.7.1 Scaffold dismantled and stored.</p> <p>1.7.2 Painted brushes cleaned and stored horizontally at levelled surface.</p> <p>1.7.3 Unused materials sealed tightly and stored/stacked at designated place along with tools and equipment.</p> <p>1.7.4 Work area cleaned and waste disposed in accordance with 3R's principle.</p> <p>1.7.5 Record maintained and status of tools and equipment reported.</p> |
| 6 | <p>Task Performance Requirements (Tools, Equipment and Materials):</p> <ul style="list-style-type: none"> Measuring tape, pen, paper, register, calculator, pencil, eraser, sharpener, district rate analysis, trowel, mortar pan, cement, sand, hammer, chisel, pliers, screw driver, water, bucket, drum, pressure washer, mug, step ladder, scaffolding materials (props, runners, stage, bracer, rope, nails), hacksaw, axe, hand grinder, scraper, wire brush, tissue paper, sand paper, sanding machine, emery cloth, white cement, surface cleaning chemicals, paint remover, adhesive, putty, putty pata (filling knife and blade), putty mixer, hand brush, shoe brush, roller, plastic sheet, newspaper, drop cloth, flex, painter's/masking tape, cotton cloth, spraying machine, waterproof paint, water primer, distemper, emulsion paint, hanger, broom, cleaning brush, dust pan, dust bin, toolbox, first aid kit and personal protective equipment (PPE). | |



7

Safety and Hygiene (Occupational Health and Safety):

- Use personal protective equipment.
- Safe handling of materials, tools and equipment.
- Prevent from hazards involved in painting works.
- Switch off electricity.
- Safe handling of debris.
- Safe use of scaffolding.
- Apply safety precautions while working at height.



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| 8 | Required Knowledge | | |
|---|---|--|---|
| | Technical Knowledge | Applied Calculation | Graphical Information |
| | <ul style="list-style-type: none"> • Tools and equipment: <ul style="list-style-type: none"> ○ Types ○ Uses ○ Safe handling • Condition and types of painting surface • Simple estimating and costing including taxes • District rate analysis • Importance of agreement • Masonry surface and their types • Preparation of masonry surface • Points to be considered while cleaning work area • Paints: <ul style="list-style-type: none"> ○ Introduction ○ Types ○ Quality ○ Use ○ Paint preparation (Mixing, dilution) ○ Process of paint application ○ Paint application technique and methods | <ul style="list-style-type: none"> • Calculate quantity of painting tools and materials • Calculate cost of painting tools and materials • Estimate labor cost • Calculate total cost • Convert imperial unit to metric unit and vice versa | <ul style="list-style-type: none"> • Read and interpret district rate analysis • Read and interpret painting price list • Read and interpret manufacturer specification and recommendation |



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| | <ul style="list-style-type: none"> • Types and uses of water proofer • Types and uses of paint remover • Types and uses of filling materials • Types and uses of undercoat paints • Types and uses of topcoat paints • Types of scaffolding • Waste management • Occupational health and safety rules and regulations • Use and importance of first aid kit | | |
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| 9 | Assessment of Competency | | | | | |
|--|--|-----------------------|-----------------------------------|--------------|------------------|---------------|
| Unit: 1 Unit Title: Apply paints on masonry surface | Candidate Details | | Assessors Detail | | | |
| | Candidate's Name: Registration Number: Symbol No: Test Centre: | | Assessors' Name 1. 2. 3. | | ID/License No: | |
| | Test Date: | | | | | |
| | Element of competency | Performance Standards | | Standard Met | Standard Not Met | Evidence Type |
| 1.1 Prepare tools, equipment and materials | 1.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 1.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 1.1.3 Materials collected and prepared in accordance with task requirements. | | | | | |
| 1.2 Prepare estimate for painting works | 1.2.1 Surface type, condition of surface and area of surface to be painted inspected for easy painting work. 1.2.2 Surface to painted measured and recorded. 1.2.3 Cost of paints determined based on quantity and quality. 1.2.4 Cost of labor, tools and materials determined based on painting area. | | | | | |
| 1.3 Prepare masonry surface for painting | 1.3.1 Scaffold firmly erected and fixed at correct location to withstand load of materials as well as two persons. 1.3.2 Hanging and removable items removed and placed in safe place. 1.3.3 Movable and light furniture's placed at center of room and covered. | | | | | |



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| | <p>1.3.4 Floor area and outer surrounding area cleared and covered with covering materials.</p> <p>1.3.5 Masonry surface scrubbed, cleaned, washed and foreign materials removed from surface.</p> <p>1.3.6 Weathered old paint removed from surface without damaging masonry surface.</p> <p>1.3.7 Minor nonstructural cracks, holes and voids on masonry surface filled uniformly.</p> <p>1.3.8 Surface sanded to smoothened uneven and rough surface.</p> <p>1.3.9 Sanded surface wiped and dust removed.</p> | | | |
| 1.4 Apply waterproof | <p>1.4.1 Waterproof mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>1.4.2 Waterproof paint applied uniformly to achieve required level of opacity and sheen in accordance with manufacturer specifications and recommendations.</p> | | | |
| 1.5 Apply undercoat | <p>1.5.1 Wall putty applied evenly covering area as recommended by manufacturer specifications.</p> <p>1.5.2 Primer mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>1.5.3 Primer applied uniformly to achieve required level of opacity and finish in accordance with manufacturer specifications and recommendations.</p> <p>1.5.4 Surface sanded after applying each coat.</p> | | | |
| 1.6 Apply topcoat | <p>1.6.1 Topcoat paint mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>1.6.2 Topcoat paint applied uniformly to achieve required level of opacity, finish and sheen in accordance with manufacturer specifications and recommendations.</p> | | | |



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| | 2.6.1 Stains of paint wiped from window glasses, floors and switch sockets. | | | | |
| 1.7 Clean work area | 1.7.1 Scaffold dismantled and stored. 1.7.2 Painted brushes cleaned and stored horizontally at levelled surface. 1.7.3 Unused materials sealed tightly and stored/stacked at designated place along with tools and equipment. 1.7.4 Work area cleaned and waste disposed in accordance with 3R's principle . 1.7.5 Record maintained and status of tools and equipment reported. | | | | |

WT- Written Test

OQ- Oral Question

PT- Practical Test

DO – Direct Observation

SR- Supervisor's report

SN–Simulation

RP- Role Play

PG –Photographs

VD- Video

CT – Certificates

TS – Testimonials (Reward)

PP – Product Produced

CS – Case Study



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Range Statement

| Variable | Range |
|-------------------------------|--|
| Personal protective equipment | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Helmet • Mask • Apron • Goggles • Gloves • Safety shoes • Safety belt • Earplug |
| Surface type | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • New surface (Internal and external) • Old surface (Internal and external) |
| Condition of surface | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Deteriorate • Weathered paint • Dampness • Microbial growth |
| Tools and materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Painting tools and equipment • Painting materials • Filling materials • Scaffolding materials |



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| | <ul style="list-style-type: none"> • Covering materials • Cleaning materials |
| Scaffold | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Bamboo • Metal • Plank • Ply |
| Hanging and removable items | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Photos • Decorative items • Mirrors • Light fixtures • Curtain, curtain rods and hanger |
| Covering materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Drop cloth • Plastic sheet • Flex • Newspaper |
| Foreign materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Effloresce • Moss • Unwanted mortar • Fungus • Grease • Glue • Nails, screws |



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| | <ul style="list-style-type: none"> • Oil |
| Topcoat paint | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Distemper • Emulsion paint |
| 3R's principle | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Reduce • Reuse • Recycle |



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| 5 | Unit No: 2 Unit Title: Apply paints on wooden surface | Unit code: |
| | Elements of competency | Performance standards |
| | 2.1 Prepare tools, equipment and materials | <p>2.1.1 Personal protective equipment (PPE) used in accordance with task requirement.</p> <p>2.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement.</p> <p>2.1.3 Materials collected and prepared in accordance with task requirements.</p> |
| | 2.2 Prepare estimate | <p>2.2.1 Surface type and condition of surface inspected for work.</p> <p>2.2.2 Surface to be painted measured and recorded.</p> <p>2.2.3 Cost of paints determined based on quantity and quality.</p> <p>2.2.4 Cost of labor, tools and materials determined based on painting area.</p> |
| | 2.3 Prepare wooden surface for painting | <p>2.3.1 Scaffold firmly erected and fixed at correct location to withstand load of materials as well as two persons.</p> <p>2.3.2 Hanging and removable items removed and placed in safe place.</p> <p>2.3.3 Movable and light furniture's placed at center of room and covered.</p> <p>2.3.4 Floor area and outer surrounding area cleared and covered with covering materials.</p> <p>2.3.5 Wooden surface sanded, cleaned and foreign materials removed from surface.</p> <p>2.3.6 Weathered old paint removed from surface without damaging wooden surface.</p> <p>2.3.7 Cracks, joints, knots and voids on wooden surface filled uniformly.</p> <p>2.3.8 Surface sanded along grains to smoothened uneven and rough surface.</p> <p>2.3.9 Sanded surface wiped and dust removed.</p> |
| | 2.4 Apply undercoat | <p>2.4.1 Undercoat mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>2.4.2 Undercoat applied uniformly to achieve required level of opacity and finish in accordance with manufacturer specifications and recommendations.</p> <p>2.4.3 Surface sanded after applying each coat.</p> |
| | 2.5 Apply topcoat | 2.5.1 Topcoat paint mixed to specified ratio in accordance with manufacturer specifications and recommendations. |



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| | | <p>2.5.2 Topcoat paint applied uniformly to achieve required level of opacity, finish and sheen in accordance with manufacturer specifications and recommendations.</p> <p>2.5.3 Stains of paint wiped from window glasses, floors and switch sockets.</p> |
| | 2.6 Clean work area | <p>2.6.1 Scaffold dismantled and stored.</p> <p>2.6.2 Painted brushes cleaned and stored horizontally at levelled surface.</p> <p>2.6.3 Unused materials sealed tightly and stored/stacked at designated place along with tools and equipment.</p> <p>2.6.4 Work area cleaned and waste disposed in accordance with <i>3R's principle</i>.</p> <p>2.6.5 Record maintained and status of tools and equipment reported.</p> |
| 6 | Task Performance Requirements (Tools, Equipment and Materials): | |
| | <ul style="list-style-type: none"> Measuring tape, pen, paper, register, calculator, pencil, eraser, sharpener, district rate analysis, trowel, hammer, chisel, pliers, screw driver, bucket, drum, mug, step ladder, scaffolding materials (props, runners, stage, bracer, rope, nails), hand grinder, scraper, tissue paper, emery cloth, sand paper, paint remover, adhesive, putty, putty pata (filling knife and blade), hand brush, roller, plastic sheet, newspaper, drop cloth, flex, painter's/masking tape, cotton cloth, spraying machine, wood primer, sealer, wood stain, enamel, varnish, chapra polish, chalk powder, saw dust, spirit, <i>Ram tilak</i>, turpentine oil, thinner, kerosene, hanger, cleaning brush, broom, dust pan, dust bin, toolbox, first aid kit and personal protective equipment (PPE). | |
| 7 | Safety and Hygiene (Occupational Health and Safety): | |
| | <ul style="list-style-type: none"> Use personal protective equipment. Safe handling of materials, tools and equipment. Prevent from hazards involved in painting works. Switch off electricity. Safe handling of debris. Safe use of scaffolding. Apply safety precautions while working at height. | |



| 8 | Required Knowledge | | |
|---|---|--|---|
| | Technical Knowledge | Applied Calculation | Graphical Information |
| | <ul style="list-style-type: none"> • Tools and equipment: <ul style="list-style-type: none"> ○ Types ○ Uses ○ Safe handling • Condition and types of painting surface • Simple estimating and costing including taxes • District rate analysis • Importance of agreement • Hard and soft wood • Points to be considered while cleaning work area • Preparation of wooden surface • Paints: <ul style="list-style-type: none"> ○ Introduction ○ Types ○ Quality ○ Use ○ Paint preparation (Mixing, dilution) ○ Process of paint application ○ Paint application technique and methods | <ul style="list-style-type: none"> • Calculate quantity of painting tools and materials • Calculate cost of painting tools and materials • Estimate labor cost • Calculate total cost • Convert imperial unit to metric unit and vice versa | <ul style="list-style-type: none"> • Read and interpret district rate analysis • Read and interpret painting price list • Read and interpret manufacturer specification and recommendation |



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| | <ul style="list-style-type: none"> • Types and use of paint remover • Uses of wooden primer • Types and uses of filling materials (saw dust, adhesives, <i>Astar</i>) • Types and uses of undercoat paints • Types and uses of topcoat paints • Types of scaffolding • Waste management • Occupational health and safety rules and regulations • Use and importance of first aid kit | | |
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| 9 | Assessment of Competency | | | | | | |
|---|---|-----------------------|---|--|----------------|------------------|---------------|
| Unit: 2 Unit Title: Apply paints on wooden surface | Candidate Details | | Assessors Detail | | | | |
| | Candidate's Name: Registration Number: Symbol No: Test Centre: | | Assessors' Name 1. 2. 3. | | ID/License No: | | |
| | Test Date: | | | | | | |
| | Element of competency | Performance Standards | | | Standard Met | Standard Not Met | Evidence Type |
| 2.1 Prepare tools, equipment and materials | 2.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 2.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 2.1.3 Materials collected and prepared in accordance with task requirements. | | | | | | |
| 2.2 Prepare estimate | 2.2.1 Surface type and condition of surface inspected for work. 2.2.2 Surface to be painted measured and recorded. 2.2.3 Cost of paints determined based on quantity and quality. 2.2.4 Cost of labor, tools and materials determined based on painting area. | | | | | | |



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| 2.3 Prepare wooden surface for painting | <p>2.3.1 Scaffold firmly erected and fixed at correct location to withstand load of materials as well as two persons.</p> <p>2.3.2 Hanging and removable items removed and placed in safe place.</p> <p>2.3.3 Movable and light furniture's placed at center of room and covered.</p> <p>2.3.4 Floor area and outer surrounding area cleared and covered with covering materials.</p> <p>2.3.5 Wooden surface sanded, cleaned and foreign materials removed from surface.</p> <p>2.3.6 Weathered old paint removed from surface without damaging wooden surface.</p> <p>2.3.7 Cracks, joints, knots and voids on wooden surface filled uniformly.</p> <p>2.3.8 Surface sanded along grains to smoothened uneven and rough surface.</p> <p>2.3.9 Sanded surface wiped and dust removed.</p> | | | | |
| 2.4 Apply undercoat | <p>2.4.1 Undercoat mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>2.4.2 Undercoat applied uniformly to achieve required level of opacity and finish in accordance with manufacturer specifications and recommendations.</p> <p>2.4.3 Surface sanded after applying each coat.</p> | | | | |
| 2.5 Apply topcoat | <p>2.5.1 Topcoat paint mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>2.5.2 Topcoat paint applied uniformly to achieve required level of opacity, finish and sheen in accordance with manufacturer specifications and recommendations.</p> <p>2.5.3 Stains of paint wiped from window glasses, floors and switch sockets.</p> | | | | |
| 2.6 Clean work area | <p>2.6.1 Scaffold dismantled and stored.</p> <p>2.6.2 Painted brushes cleaned and stored horizontally at levelled surface.</p> | | | | |



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| | <p>2.6.3 Unused materials sealed tightly and stored/stacked at designated place along with tools and equipment.</p> <p>2.6.4 Work area cleaned and waste disposed in accordance with <i>3R's principle.</i></p> <p>2.6.5 Record maintained and status of tools and equipment reported.</p> | | | |
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WT- Written Test

OQ- Oral Question

PT- Practical Test

DO – Direct Observation

SR- Supervisor's report

SN–Simulation

RP- Role Play

PG –Photographs

VD- Video

CT – Certificates

TS – Testimonials (Reward)

PP – Product Produced

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Range Statement

| Variable | Range |
|-------------------------------|--|
| Personal protective equipment | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Helmet • Mask • Apron • Goggles • Gloves • Safety shoes • Safety belt • Ear plug |
| Surface type | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • New surface (Internal and external) • Old surface (Internal and external) |
| Condition of surface | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Deteriorate • Weathered paint • Dampness • Microbial growth |
| Tools and materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Painting tools and equipment • Painting materials • Filling materials • Scaffolding materials • Covering materials |



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| | <ul style="list-style-type: none"> • Cleaning materials |
| Scaffold | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Bamboo • Metal • Plank • Ply |
| Hanging and removable items | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Photos • Decorative items • Mirrors • Light fixtures • Curtain, curtain rods and hanger |
| Covering materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Drop cloth • Plastic sheet • Flex • Newspaper |
| Foreign materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Moss • Unwanted mortar • Fungus • Grease • Glue • Oil • Nails, screws • Wooden pieces |



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| Undercoat paint | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Wood primer • Astar • Sealer |
| Topcoat paint | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Enamel • Clear varnish • Chapra polish |
| 3R's principle | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Reduce • Reuse • Recycle |



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| | | |
|---|--|---|
| 5 | Unit No: 3 Unit Title: Apply paints on metallic surface | Unit code: |
| | Elements of competency | Performance standards |
| | 3.1 Prepare tools, equipment and materials | 3.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 3.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 3.1.3 Materials collected and prepared in accordance with task requirements. |
| | 3.2 Prepare estimate | 3.2.1 Surface type and condition of surface inspected for work. 3.2.2 Surface to be painted measured and recorded. 3.2.3 Cost of paints determined based on quantity and quality. 3.2.4 Cost of labor, tools and materials determined based on painting area. |
| | 3.3 Prepare metallic surface for painting | 3.3.1 Scaffold firmly erected and fixed at correct location to withstand load of materials as well as two persons. 3.3.2 Hanging and removable items removed and placed in safe place. 3.3.3 Movable and light furniture's placed at center of room and covered. 3.3.4 Floor area and outer surrounding area cleared and covered with covering materials . 3.3.5 Metallic surface scrubbed, cleaned and foreign materials removed from surface. 3.3.6 Weathered old paint removed from surface without damaging metallic surface. 3.3.7 Metal putty evenly applied on joints and holes. 3.3.8 Surface sanded to smoothened uneven and rough surface. 3.3.9 Sanded surface wiped and dust removed. |
| | 3.4 Apply primer | 3.4.1 Metal primer mixed to specified ratio in accordance with manufacturer specifications and recommendations. 3.4.2 Metal primer applied uniformly to achieve required level of opacity and finish in accordance with manufacturer specifications and recommendations. 3.4.3 Surface sanded after applying metal primer. |



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| | <p>3.5 Apply topcoat</p> | <p>3.5.1 Topcoat paint mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>3.5.2 Topcoat paint applied uniformly to achieve required level of opacity, finish and sheen in accordance with manufacturer specifications and recommendations.</p> <p>3.5.3 Stains of paint wiped from window glasses, floors and switch sockets.</p> |
| | <p>3.6 Clean work area</p> | <p>3.6.1 Scaffold dismantled and stored.</p> <p>3.6.2 Painted brushes cleaned and stored horizontally at levelled surface.</p> <p>3.6.3 Unused materials sealed tightly and stored/stacked at designated place along with tools and equipment.</p> <p>3.6.4 Work area cleaned and waste disposed in accordance with 3R's principle.</p> <p>3.6.5 Record maintained and status of tools and equipment reported.</p> |
| 6 | <p>Task Performance Requirements (Tools, Equipment and Materials):</p> <ul style="list-style-type: none"> Measuring tape, pen, paper, register, calculator, pencil, eraser, sharpener, district rate analysis, trowel, hammer, chisel, pliers, screw driver, bucket, drum, mug, step ladder, scaffolding materials (props, runners, stage, bracer, rope, nails), hand grinder, scraper, tissue paper, emery cloth, sand paper, paint remover, adhesive, metal putty, putty pata (filling knife and blade), hand brush, roller, spraying machine, plastic sheet, newspaper, drop cloth, flex, painter's/masking tape, cotton cloth, blow lamp, metal primer, enamel, varnish, turpentine oil, thinner, kerosene, hanger, broom, cleaning brush, dust pan, dust bin, toolbox, first aid kit and personal protective equipment (PPE). | |
| 7 | <p>Safety and Hygiene (Occupational Health and Safety):</p> <ul style="list-style-type: none"> Use personal protective equipment. Safe handling of materials, tools and equipment. Prevent from hazards involved in painting works. Switch off electricity. Safe handling of debris. | |



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| | <ul style="list-style-type: none">• Safe use of scaffolding.• Apply safety precautions while working at height. |
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| 8 | Required Knowledge | | |
|---|--|--|---|
| | Technical Knowledge | Applied Calculation | Graphical Information |
| | <ul style="list-style-type: none"> • Tools and equipment: <ul style="list-style-type: none"> ○ Types ○ Uses ○ Safe handling • Condition and types of painting surface • Simple estimating and costing including taxes • District rate analysis • Importance of agreement • Ferrous and non-ferrous metal • Points to be considered while cleaning work area • Preparation of metallic surface • Levelling technique <ul style="list-style-type: none"> ○ Grinding ○ Sanding ○ Putting • Types and use of paint remover • Metallic Paints: <ul style="list-style-type: none"> ○ Introduction | <ul style="list-style-type: none"> • Calculate quantity of painting tools and materials • Calculate cost of painting tools and materials • Estimate labor cost • Calculate total cost • Convert imperial unit to metric unit and vice versa | <ul style="list-style-type: none"> • Read and interpret district rate analysis • Read and interpret painting price list • Read and interpret manufacturer specification and recommendation |



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| | <ul style="list-style-type: none"> ○ Types ○ Quality ○ Use ○ Paint preparation (Mixing, dilution) ○ Process of paint application ○ Paint application technique and methods ● Types and uses of filling materials ● Types and uses of primer ● Types and uses of topcoat paints ● Types of scaffolding ● Waste management ● Occupation health and safety rules and regulations ● Use and importance of first aid kit | | |
|--|--|--|--|



| 9 | Assessment of Competency | | | | | | |
|---|---|-----------------------|---|--|----------------|------------------|---------------|
| Unit: 3 Unit Title: Apply paints on metallic surface | Candidate Details | | Assessors Detail | | | | |
| | Candidate's Name: Registration Number: Symbol No: Test Centre: | | Assessors' Name 1. 2. 3. | | ID/License No: | | |
| | Test Date: | | | | | | |
| | Element of competency | Performance Standards | | | Standard Met | Standard Not Met | Evidence Type |
| 3.1 Prepare tools, equipment and materials | 3.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 3.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 3.1.3 Materials collected and prepared in accordance with task requirements. | | | | | | |
| 3.2 Prepare estimate | 3.2.1 Surface type and condition of surface inspected for work. 3.2.2 Surface to be painted measured and recorded. 3.2.3 Cost of paints determined based on quantity and quality. 3.2.4 Cost of labor, tools and materials determined based on painting area. | | | | | | |



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|---|---|--|--|--|--|
| 3.3 Prepare metallic surface for painting | <p>3.3.1 Scaffold firmly erected and fixed at correct location to withstand load of materials as well as two persons.</p> <p>3.3.2 Hanging and removable items removed and placed in safe place.</p> <p>3.3.3 Movable and light furniture's placed at center of room and covered.</p> <p>3.3.4 Floor area and outer surrounding area cleared and covered with covering materials.</p> <p>3.3.5 Metallic surface scrubbed, cleaned and foreign materials removed from surface.</p> <p>3.3.6 Weathered old paint removed from surface without damaging metallic surface.</p> <p>3.3.7 Metal putty evenly applied on joints and holes.</p> <p>3.3.8 Surface sanded to smoothened uneven and rough surface.</p> <p>3.3.9 Sanded surface wiped and dust removed.</p> | | | | |
| 3.4 Apply primer | <p>3.4.1 Metal primer mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>3.4.2 Metal primer applied uniformly to achieve required level of opacity and finish in accordance with manufacturer specifications and recommendations.</p> <p>3.4.3 Surface sanded after applying each coat.</p> | | | | |
| 3.5 Apply topcoat | <p>3.5.1 Topcoat paint mixed to specified ratio in accordance with manufacturer specifications and recommendations.</p> <p>3.5.2 Topcoat paint applied uniformly to achieve required level of opacity, finish and sheen in accordance with manufacturer specifications and recommendations.</p> <p>3.5.3 Stains of paint wiped from window glasses, floors and switch sockets.</p> | | | | |
| 3.6 Clean work area | <p>3.6.1 Scaffold dismantled and stored.</p> <p>3.6.2 Painted brushes cleaned and stored horizontally at levelled surface.</p> | | | | |



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| | <p>3.6.3 Unused materials sealed tightly and stored/stacked at designated place along with tools and equipment.</p> <p>3.6.4 Work area cleaned and waste disposed in accordance with 3R's principle.</p> <p>3.6.5 Record maintained and status of tools and equipment reported.</p> | | | |
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WT- Written Test

OQ- Oral Question

PT- Practical Test

DO – Direct Observation

SR- Supervisor's report

SN–Simulation

RP- Role Play

PG –Photographs

VD- Video

CT – Certificates

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Range Statement

| Variable | Range |
|-------------------------------|--|
| Personal protective equipment | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Helmet • Mask • Apron • Goggles • Gloves • Safety shoes • Safety belt • Earplug |
| Surface types | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • New surface (Internal and external) • Old surface (Internal and external) |
| Condition of surface | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Deteriorate • Weathered paint • Rust • Microbial growth |
| Tools and materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Painting tools and equipment • Painting materials • Filling materials • Scaffolding materials • Covering materials |



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| | <ul style="list-style-type: none"> • Cleaning materials |
| Scaffold | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Bamboo • Metal • Plank • Ply |
| Hanging and removable items | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Photos • Decorative items • Mirrors • Light fixtures • Curtain, curtain rods and hanger |
| Covering materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Drop cloth • Plastic sheet • Flex • Newspaper |
| Foreign materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Unwanted mortar and metal residue • Grease • Glue • Oil • Corrosion (Rust) |
| Topcoat paint | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Enamel |



| | |
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| | <ul style="list-style-type: none"> • Aluminium paint • Industrial paint |
| 3R's principle | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Reduce • Reuse • Recycle |



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| | | |
|---|---|--|
| 5 | Unit No: 4 Unit Title: Apply wallpaper on interior walls and ceiling | Unit code: |
| | Elements of competency | Performance standards |
| | 4.1 Prepare tools, equipment and materials | 4.1.1 Personal protective equipment (PPE) used in accordance with task requirement. 4.1.2 Tools and equipment collected and checked for working condition in accordance with task requirement. 4.1.3 Materials collected and prepared in accordance with task requirements. |
| | 4.2 Prepare estimate | 4.2.1 Surface type and condition of surface inspected for work. 4.2.2 Volume of work determined and recorded. 4.2.3 Cost of wallpaper determined based on quantity and quality. 4.2.4 Cost of labor, tools and materials prepared based on work. |
| | 4.3 Prepare surface | 4.3.1 Scaffold firmly erected and fixed at correct location to withstand load of materials as well as two persons. 4.3.2 Hanging and removable items removed and placed in safe place. 4.3.3 Movable and light furniture's placed at center of room and covered. 4.3.4 Floor area cleared and covered with covering materials . 4.3.5 Old wallpaper removed from surface without damaging surface. 4.3.6 Surface scrubbed, cleaned, washed and foreign materials removed from surface. 4.3.7 Wall putty evenly applied on cracks, holes and voids. 4.3.8 Surface sanded to smoothened uneven and rough surface. 4.3.9 Sanded surface wiped and dust removed. |
| | 4.4 Apply waterproof | 4.4.1 Waterproof mixed to specified ratio in accordance with manufacturer specifications and recommendations. 4.4.2 Waterproof paint applied uniformly to achieve required level of opacity and sheen in accordance with manufacturer specifications and recommendations. |
| | 4.5 Apply primer | 4.5.1 Primer mixed to specified ratio in accordance with manufacturer specifications and recommendations. |



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| | | <p>4.5.2 Primer applied uniformly to achieve required level of opacity and finish in accordance with manufacturer specifications and recommendations.</p> <p>4.5.3 Surface sanded after applying primer.</p> |
| | 4.6 Stick wallpaper | <p>4.6.1 Wallpaper checked for defects and shading problems.</p> <p>4.6.2 Wallpaper measured and cut leaving an extra four inches at the top.</p> <p>4.6.3 Adhesive applied evenly over the back surface of wallpaper.</p> <p>4.6.4 Straight vertical line marked on the surface for applying wallpaper.</p> <p>4.6.5 Wallpaper pasted on the surface along the mark without wrinkles and air bubbles.</p> <p>4.6.6 Wallpaper flattened to remove wrinkles and bubbles.</p> <p>4.6.7 Wallpaper pasted matching the patterns without curled seam and peeling edges.</p> <p>4.6.8 Excess wallpaper trimmed in a line and level without damage.</p> <p>4.6.9 Excess glue wiped off after setting the wallpaper.</p> |
| | 4.7 Clean work area | <p>4.7.1 Scaffold dismantled and stored.</p> <p>4.7.2 Painted brushes cleaned and stored horizontally at levelled surface.</p> <p>4.7.3 Unused materials sealed tightly and stored/stacked at designated place along with tools and equipment.</p> <p>4.7.4 Work area cleaned and waste disposed in accordance with 3R's principle.</p> <p>4.7.5 Record maintained and status of tools and equipment reported.</p> |

6 Task Performance Requirements (Tools, Equipment and Materials):

- Measuring tape, pen, paper, register, calculator, pencil, eraser, sharpener, district rate analysis, chalk, carpenter level, plumb bob, string line, sprit level, trowel, mortar pan, hammer, chisel, pliers, screw driver, water, bucket, drum, mug, step ladder, scaffolding materials (props, runners, stage, bracer, rope, nails), hand grinder, scraper, wire brush, tissue paper, emery paper, sandpaper, sanding machine, sponge, primer, adhesive, tray, surface cleaning chemicals, paint remover, wall putty, putty pata (filling knife and blade), hand brush, paint roller, plastic sheet, newspaper, drop cloth, flex, painter's/masking tape, cotton cloth, waterproof paint, wallpaper, scissors, trimming knife, cutter, wallpaper brush, wallpaper smoother, seam roller, hanger, cleaning brush, broom, dust pan, dust bin, toolbox, first aid kit and personal protective equipment (PPE).



7

Safety and Hygiene (Occupational Health and Safety):

- Use personal protective equipment.
- Safe handling of materials, tools and equipment.
- Turn off the electricity.
- Prevent from hazards involved in painting works.
- Safe handling of debris.
- Safe use of scaffolding.
- Apply safety precautions while working at height.



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| 8 | Required Knowledge | | |
|---|---|--|---|
| | Technical Knowledge | Applied Calculation | Graphical Information |
| | <ul style="list-style-type: none"> Tools and equipment: <ul style="list-style-type: none"> Types Uses Safe handling Condition and types of surface Simple estimating and costing including taxes District rate analysis Importance of agreement Points to be considered while cleaning work area Types and uses of paint remover Types and uses of filling materials Types of scaffolding Types and quality of paints Steps involved in painting works Paint preparation (Mixing, dilution) Process of paint application Paint application technique and methods Types and uses of water proofer | <ul style="list-style-type: none"> Calculate quantity of painting tools and materials Calculate cost of painting tools and materials Calculate quantity and cost of wallpaper Estimate labor cost Calculate total cost Convert imperial unit to metric unit and vice versa | <ul style="list-style-type: none"> Read and interpret district rate analysis Read and interpret painting price list Read and interpret manufacturer specification and recommendation |



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| <ul style="list-style-type: none"> • Types and uses of primer • Surface preparation techniques for applying wallpaper • Wallpaper: <ul style="list-style-type: none"> ○ Introduction ○ Types ○ Quality ○ Sizes ○ Methods of cutting/trimming ○ Process of applying wallpaper ○ Wallpaper applying technique ○ Methods of jointing ○ Pasting methods ○ Common wallpaper defects • Types of adhesive • Waste management • Occupation health and safety rules and regulations • Use and importance of first aid kit | | |
|--|--|--|



| 9 | Assessment of Competency | | | | | | |
|--|---|------------|-------------------------|--------------|------------------|---------------|----------|
| Unit: 4 Unit Title: Apply wallpaper on interior walls and ceiling | Candidate Details | | Assessors Detail | | | | |
| | Candidate's Name: | | Assessors' Name | | ID/License | | |
| | Registration Number: | | 1. | | No: | | |
| | Symbol No: | | 2. | | | | |
| Test Centre: | | Test Date: | | 3. | | | |
| Element of competency | Performance Standards | | | Standard Met | Standard Not Met | Evidence Type | Comments |
| 4.1 Prepare tools, equipment and materials | 4.1.4 Personal protective equipment (PPE) used in accordance with task requirement. 4.1.5 Tools and equipment collected and checked for working condition in accordance with task requirement. 4.1.6 Materials collected and prepared in accordance with task requirements. | | | | | | |
| 4.2 Prepare estimate | 4.2.1 Surface type and condition of surface inspected for work. 4.2.2 Volume of work determined and recorded. 4.2.3 Cost of wallpaper determined based on quantity and quality. 4.2.4 Cost of labor, tools and materials prepared based on work. | | | | | | |
| 4.3 Prepare surface | 4.3.1 Scaffold firmly erected and fixed at correct location to withstand load of materials as well as two persons. 4.3.2 Hanging and removable items removed and placed in safe place. 4.3.3 Movable and light furniture's placed at center of room and covered. 4.3.4 Floor area cleared and covered with covering materials . 4.3.5 Old wallpaper removed from surface without damaging surface. | | | | | | |



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|----------------------|---|--|--|--|
| | 4.3.6 Surface scrubbed, cleaned, washed and foreign materials removed from surface. 4.3.7 Wall putty evenly applied on cracks, holes and voids. 4.3.8 Surface sanded to smoothened uneven and rough surface. 4.3.9 Sanded surface wiped and dust removed. | | | |
| 4.4 Apply waterproof | 4.4.1 Waterproof mixed to specified ratio in accordance with manufacturer specifications and recommendations. 4.4.2 Waterproof paint applied uniformly to achieve required level of opacity and sheen in accordance with manufacturer specifications and recommendations. | | | |
| 4.5 Apply primer | 4.5.1 Primer mixed to specified ratio in accordance with manufacturer specifications and recommendations. 4.5.2 Primer applied uniformly to achieve required level of opacity and finish in accordance with manufacturer specifications and recommendations. 4.5.3 Surface sanded after applying primer. | | | |
| 4.6 Stick wallpaper | 4.6.1 Wallpaper checked for defects and shading problems. 4.6.2 Wallpaper measured and cut leaving an extra four inches at the top. 4.6.3 Adhesive applied evenly over the back surface of wallpaper. 4.6.4 Straight vertical line marked on the surface for applying wallpaper. 4.6.5 Wallpaper pasted on the surface along the mark without wrinkles and air bubbles. 4.6.6 Wallpaper flattened to remove wrinkles and bubbles. 4.6.7 Wallpaper pasted matching the patterns without curled seam and peeling edges. 4.6.8 Excess wallpaper trimmed in a line and level without damage. 4.6.9 Excess glue wiped off after setting the wallpaper. | | | |
| 4.7 Clean work area | 4.7.1 Scaffold dismantled and stored. | | | |



| | | | | |
|--|---|--|--|--|
| | <p>4.7.2 Painted brushes cleaned and stored horizontally at levelled surface.</p> <p>4.7.3 Unused materials sealed tightly and stored/stacked at designated place along with tools and equipment.</p> <p>4.7.4 Work area cleaned and waste disposed in accordance with <i>3R's principle</i>.</p> <p>4.7.5 Record maintained and status of tools and equipment reported.</p> | | | |
|--|---|--|--|--|

WT- Written Test

OQ- Oral Question

PT- Practical Test

DO – Direct Observation

SR- Supervisor's report

SN–Simulation

RP- Role Play

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PP – Product Produced

CS – Case Study



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Range Statement

| Variable | Range |
|-------------------------------|--|
| Personal protective equipment | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Helmet • Mask • Apron • Goggles • Gloves • Safety shoes • Safety belt • Earplug |
| Surface type | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • New surface • Old surface |
| Condition of surface | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Deteriorate • Weathered paint • Dampness • Microbial growth |
| Tools and materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Painting tools and equipment • Painting materials • Filling materials • Scaffolding materials |



| | |
|-----------------------------|---|
| | <ul style="list-style-type: none"> • Covering materials • Cleaning materials • Wallpaper |
| Scaffold | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Bamboo • Metal • Plank • Ply |
| Hanging and removable items | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Photos • Decorative items • Mirrors • Light fixtures • Curtain, curtain rods and hanger |
| Covering materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Drop cloth • Plastic sheet • Flex • Newspaper |
| Foreign materials | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Effloresce • Moss • Unwanted mortar • Fungus • Grease • Glue |



| | |
|----------------|--|
| | <ul style="list-style-type: none"> • Nails, screws • Oil |
| 3R's principle | <p><i>May include but not limited to:</i></p> <ul style="list-style-type: none"> • Reduce • Reuse • Recycle |



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