



Government of the People's Republic of Bangladesh
Skills Development Project



National Competency Standards for Painting

Qualification Title: **National Skills Certificate-I in Painting
(Construction Sector)**

Qualification Code: **CONPNT080113**



Bangladesh Technical Education Board
May - 2014

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National Skills Certificate-I in Painting (Construction Sector)

Approval Sheet

The National Competency Standards for **National Skills Certificate-I Painting (Construction Sector)** Qualification is a document developed by the Technical sub Committee for Painting under the Skills Development Project ADB Loan 2425 – BAN (SF).

It was approved by the Bangladesh Technical Education Board (BTEB) upon the endorsement of the Industry Skills Council at a meeting held on 24/01/2014 at the office of the Industry Skills Council.

The Standard was also approved by Standard and Curriculum Development Committee (SCDC) on 15th April, 2014 at BTEB-CBT cell.

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National Skills Certificate-I in Painting (Construction Sector)

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Bangladesh Technical Education Board

Preface

The TVET system has a large role to play in economic growth and social development as workforce provider to the labor market and as provider of skills to those who are looking for employment. In the case of Bangladesh, the TVET sector needs major

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reforms to ensure that issues of quality and capacity, relevance, and access are properly addressed.

The Directorate of Technical Education (DTE) with funding from the Asian Development Bank (ADB), Swiss Agency Development for Cooperation SDC and the Government of Bangladesh (GoB) is implementing a project known as Skills Development Project (SDP). The main target of the Skills Development Project (SDP) is to improve the relevance of TVET in labor market by introducing competency-based training system: a system that proceeds from the development of a qualifications framework, competency standards, curriculum, training delivery, assessment, and quality assurance mechanisms in order to develop a competitive workforce.

The development of competency standards is regarded as the heart of a competency-based training regime. Each standard defines sets of knowledge, skills and attitudes (KSAs) that a Bangladeshi trainee should be able to demonstrate at a recognized level of competence. It provides a common framework of outcomes between the labor and education sectors, as well as among workers, trainers and trainees.

In the process of development, *Industry Skills Council* (ISC) were organized to determine competencies expected of an occupation in Bangladesh. The ISC, whose membership come from “top performers” in the industry, performed occupational, competency and unit analyses based on their rich experiences in the field, existing documents, and on the advice of national and international experts. Competency standards of Sri Lanka, Philippines, Australia, Korea, Malaysia, Maldives and other countries were examined.

A series of workshops – development, review and finalization - were conducted to ensure a workable National Competency Standards for the occupation. Further, a validation instrument was developed and administered to other top industry performers to verify and confirm the draft being developed.

It is hoped that this document reflects the real needs of the industry thereby providing a concrete basis for the curriculum development and assessment. In such a way, the development of relevant and competent workforce is not farfetched.

Chowdhury Mufad Ahmed

Project Director
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Acronyms

National Skills Certificate-I in Painting (Construction Sector)	
MoE	Ministry of Education
DG	Director General
DTE	Directorate of Technical Education
SDP	Skills Development Project
PD	Project Director
PIU	Project Implementation Unit
GOB	Government of Bangladesh
ADB	Asian Development Bank
SC	Swiss contact
ANTA	Australian National Training Authority
APEC	Asia Pacific Economic Cooperation
ASEAN	Association of Southeast Asian Nations
BMET	Bureau of Manpower Employment and Training
NTVQ	National Technical Vocational Qualification
NTVQF	National Technical Vocational Qualification Framework
BTEB	Bangladesh Technical Education Board
CBT	Competency Based Training
CS	Competency Standard
HSC (Voc)	Higher Secondary Certificate (Vocational)
KSA	Knowledge, Skills, Attitude
MoLE	Ministry of Labor and Employment
NTVQF	National Technical Vocational Qualification Framework
NTVQ	National Technical Vocational Qualification
OHS	Occupational Health and Safety
PSC	Project Steering Committee
RMG	Ready Made Garments
RPL	Recognition of Prior Learning
SSC (Voc)	Secondary School Certificate (Vocational)
STEP	Skills and Training Enhancement project (WB)
ISC	The Industry Skill Council
TESDA	Technical Education and Skills Development Authority
TL	Team Leader
TSC	Technical Sub Committee
TVET	Technical and Vocational Education and Training
WB	World Bank
DACUM	Development of a Curriculum
CBLM	Competency based learning Materials
SCDC	Standard and Curriculum Development Committee

Section 1. The Qualification

National Skills Certificate-I in Painting (Construction Sector)

1. Title of Qualification: National Skills Certificate-I in Painting (Construction Sector)	
2. Qualification code:	3. Endorsement date:
CONPNT080112	10 April, 2012
4. Purpose of the qualification	<p>The NSC I in Painting Qualification consists of a set of competencies that a person must achieve in order to work competently in the Construction Sector as a Painter.</p> <p>In particular, he/she should be able to:</p> <ol style="list-style-type: none"> 1. Prepare tools, equipment and materials for painting 2. Prepare surface for white washing. 3. Perform white washing 4. Perform color washing
5. Regulatory Arrangements	The holder of this qualification should have been assessed by a BTEB certified assessor and found to be competent in the units listed in Section 2.
6. Accreditation requirements	The qualifications shall be offered in compliance with the accreditation requirements set by BTEB.
7. Transition arrangements	In the absence of certified assessors, the BTEB shall appoint trainers who have undergone assessment trainings.
8. Contact for comments	Chairperson Bangladesh Technical Education Board (BTEB) Agargaon, Sher-E-Bangla Nagar Dhaka-1207

**Section -2: National Competency Standards
for
National Skills Certificates in Painting**

Generic Competencies

Code	Unit of Competency	Level	No. of Hrs
GN0101	Communicate in the workplace	1	30
GN0102	Work in a team environment	1	18
GN0103	Practice workplace cleanliness	1	18
GN0104	Practice occupational health and safety (OHS)	1	30
GN0305	Lead Small team	3	18
GN0306	Demonstrate work values	3	18
GN0307	Practice negotiation skills	3	24
Total			156 hours

Sector Specific Competencies

Code	Unit of Competency	Level	No. of Hrs
CON0101	Work in the Construction Sector	1	24
CON0102	Interpret Drawings and Specifications in Construction Manuals for Painting in the Construction Sector	1	30
CON0103	Use Hand Tools and Power Tools for Painting in the Construction Sector	1	30
CON0204	Perform Measurement and calculations for Painting in the Construction Sector	2	48
CON0205	Maintain tools and equipment for Painting in the Construction Sector	2	30
Total			162 Hours

Occupation Specific Competencies

Code	Unit of Competency	Level	No. of Hrs.
CONPNT0101	Prepare tools, equipment and materials for painting	1	45
CONPNT0102	Prepare surface for Painting.	1	45
CONPNT0103	Perform white washing	1	45
CONPNT0104	Perform color washing	1	45
CONPNT0205	Perform distempering	2	42
CONPNT0206	Perform aluminum painting	2	42
CONPNT0207	Perform plastic emulsion painting	2	48
CONPNT0208	Perform weather coat painting	2	30
CONPNT0209	Perform synthetic enamel painting	2	30
CONPNT0310	Perform cement painting	3	45
CONPNT0311	Perform spray painting	3	45
CONPNT0312	Perform varnishing	3	45
CONPNT0313	Perform French polishing	3	40
CONPNT0314	Perform estimate for painting	3	35
			582
Grand Total			900 hours

The Summary of Units of Competencies For Level-1

The units of competencies this qualification are summarized as follows:

Generic Competencies

Code	Unit of Competency	Level	No. of Hrs
GN0101	Communicate in the workplace	1	30
GN0102	Work in a team environment	1	18
GN0103	Practice workplace cleanliness	1	18
GN0104	Practice occupational health and safety (OHS)	1	30
Total			96 hours

Sector Specific Competencies

Code	Unit of Competency	Level	No. of Hrs
CON0101	Work in the Construction Sector	1	24
CON0102	Interpret Drawings and Specifications in Construction Manuals	1	30
CON0103	Use Hand Tools and Power Tools for the Construction Sector	1	30
Total			84 hours

Occupation Specific Competencies

Code	Unit of Competency	Level	No. of Hrs
CONPNT0101	Prepare tools, equipment and materials for painting	1	45
CONPNT0102	Prepare surface for white washing.	1	45
CONPNT0103	Perform white washing	1	45
CONPNT0104	Perform color washing	1	45
Total			180 hours
Grand Total			360 hours

Section 3. The Generic Competencies

Unit of Competency	Communicate in the Workplace
Unit Code	GN0101
Unit Descriptor	This unit covers the knowledge, skills and attitudes (KSAs) required communicating in the workplace. It includes the use of verbal and written forms of communication to receive, interpret, convey, and document information/ instruction using appropriate communication equipment.
Nominal Hours	30 hours

Elements of Competency	Performance Criteria Bold italicized words are detailed in the Range of Variables
1. Receive verbal instructions.	1.1. Instructions are accessed and interpreted. 1.2. Questions are asked to clarify understanding or gain more information. 1.3. Information/instruction is recorded.
2. Interpret verbal and written information/ instruction	2.1. Written instructions are interpreted. 2.2. Work signage's are properly responded. 2.3. Routine written instructions are followed in sequence. 2.4. Feedback is given to workplace supervisor.
3. Convey instructions using verbal and written forms of communication	3.1. Relevant communication methods are used to transmit instructions. 3.2. Appropriate non-verbal communication is used. 3.3. Channels of communication are identified and followed 3.4. Communication tools and equipment are operated and faults are identified and reported. 3.5. Information is conveyed using appropriate forms .
4. Complete written documentation	4.1. All required documentation is completed 4.2. Workplace data are recorded 4.3. Written information/instruction is passed to personnel.
5. Participate in work place meetings and discussions	5.1. Meetings are attended regularly and on time. 5.2. Meeting inputs are consistent with the meeting purpose and established protocols. 5.3. Opinions are expressed without interruption. 5.4. Meeting outputs are processed and implemented.

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Range Of Variables

Variable	Range (Include but are not limited to):
1. Written instructions	1.1. Supervisor's/Manager's Instructions 1.2. Memoranda 1.3. Rules and Regulations 1.4. Signage 1.5. Approved Work Plan 1.6. External communications
2. Workplace guidelines	2.1. Labor Policies and Guidelines 2.2. Written Instructions 2.3. Operations Manual 2.4. Organizational Manuals 2.5. Quality Assurance Handbook
3. Signage	3.1. On-site direction signs 3.2. Common site warnings 3.3. Location signs 3.4. Traffic signs
4. Communication	4.1. Verbal instructions 4.2. Written instructions 4.3. Online communication
5. Tools and machinery	5.1. Telephone 5.2. Mobile Phone 5.3. Fax machines 5.4. Two-way radio 5.5. Computers /Internet 5.6. Forms 5.7. Memo
6. Forms	6.1. Memorandum 6.2. Requisitioning Form 6.3. Personnel Form 6.4. Safety Report Form
7. Documentation	7.1. Reports (Monthly, Quarterly, Half-Yearly, Annual) 7.2. Plans (Strategic Plan, Operational Plan, Monthly Schedule) 7.3. Monitoring and Evaluation Report 7.4. Minutes of Meetings

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Evidence Guide

1. Critical Aspects of competency	<p>Assessment required evidence that the candidate:</p> <p>1.1 Demonstrated knowledge of workplace procedures in receiving, interpreting and conveying verbal & written communication.</p> <p>1.2 Satisfied the requirements mentioned in the Performance Criteria and Range of Variables</p>
2. Underpinning knowledge	<p>2.1. Workplace Communication Policies, Standards and Procedures</p> <p>2.2. Verbal and Non-verbal communication</p> <p>2.3. Modes of Communication</p> <p>2.4. Communication Equipment: Types, Uses and Faults</p> <p>2.5. Channels of Communication</p>
3. Underpinning Skills	<p>3.1. Receiving verbal instructions.</p> <p>3.2. Interpreting verbal and written information/ instruction</p> <p>3.3. Conveying instructions using verbal and written forms of communication</p> <p>3.4. Completing written documentation</p> <p>3.5. Participating in work place meetings and discussions</p>
4. Underpinning Attitudes	<p>4.1 Commitment to occupational health and safety</p> <p>4.2 Environmental concerns</p> <p>4.3 Eagerness to learn</p> <p>4.4 Tidiness and timeliness</p> <p>4.5 Respect for rights of peers and seniors in workplace</p> <p>4.6 Communication with peers and seniors in workplace</p>
5. Resource Implication	<p>5.1 Pens</p> <p>5.2 Telephone</p> <p>5.3 Computer</p> <p>5.4 Writing materials</p> <p>5.5 Online communication</p>
6. Methods of Assessment	<p>Competency in this unit should be assessed through:</p> <p>6.1 Direct observation.</p> <p>6.2 Oral test</p> <p>6.3 Demonstration</p> <p>6.4 Portfolio</p> <p>6.5 Written test</p>

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7. Context for Assessment	For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.
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Accreditation Requirements

Training providers must be accredited by Bangladesh Technical Education Board(BTEB) , the national quality assurance body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of any national qualification.

Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by BTEB.

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Unit of Competency	Work in a Team Environment
Unit Code	GN0102
Unit Descriptor	This unit covers the knowledge, skills and attitudes (KSAs) required in working in a team environment. It includes the following: identify OHS policies and procedures, follow personal safety measures, report hazards and risks, respond to emergencies, and maintain personal well-being.
Nominal Hours	18 hours

Elements of competency	Performance Criteria <i>Bold italicized</i> words are detailed in the Range of Variables
1. Define team role and scope	1.1. Role and objectives of the team are defined. 1.2. Team structure, responsibilities, source of information and reporting relations are identified from team discussions and other external sources.
2. Identify individual role and responsibility	2.1. Individual roles and responsibilities of team members are identified. 2.2. Reporting relationships among team members are defined and clarified. 2.3. Reporting relationships external to the team are defined and clarified.
3. Participate in team discussions	3.1. Ideas related to team plans are contributed. 3.2. Recommendations for improving team work are put forward.
4. Work as a team member	4.1. Effective forms of communication are used to interact with team members. 4.2. Communication channels are followed as per work place context . 4.3. OHS practices are followed.

Range Of Variables

Variable	Range (Included but not limited to):
1. Sources of information	1.1. Standard Operating Procedures 1.2. Job Description 1.3. Operations Manual 1.4. Organizational Structure
2. Team Members	2.1. Coach/mentor 2.2. Supervisor/Manager 2.3. Peers/Colleagues 2.4. Employee representative

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3. Workplace context	3.1. National Laws and Statutes 3.2. Standard Operating Procedures 3.3. Workplace Rules and Regulations
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Evidence Guide

1. Critical Aspects of competency	Assessment required evidence that the learner: 1.1 Demonstrated knowledge in working in a team environment. 1.2 Satisfied the requirements mentioned in the Performance Criteria and Range of Variables
2. Underpinning knowledge	2.1. Team Structure, Role and Responsibility 2.2. Individual Members' Roles and Responsibilities 2.3. Communication Flow and Reporting Structures 2.4. Team Planning 2.5. Interpersonal Communication Skills 2.6. Team Meeting Procedures 2.7. OHS Practices
3. Underpinning skills	3.1. Identifying the role and responsibility of the team 3.2. Identifying roles and responsibilities of individual members 3.3. Participating in team discussions 3.4. Working as a team member
4. Underpinning Attitudes	4.1 Commitment to occupational health and safety 4.2 Environmental concerns 4.3 Eagerness to learn 4.4 Tidiness and timeliness 4.5 Respect for rights of peers and seniors in workplace 4.6 Communication with peers and seniors in Workplace
5. Resource Implication	5.1 Pens 5.2 Telephone 5.3 Computer 5.4 Writing materials 5.5 Online communication
6. Methods of Assessment	Competency in this unit should be assessed through: 6.3 Direct observation. 6.4 Oral test

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	6.3 Demonstration 6.4 Portfolio 6.5 Written test
7. Context for Assessment	For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.
<p>Accreditation Requirements</p> <p>Training providers must be accredited by Bangladesh Technical Education Board (BTEB), the national quality assurance body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of any national qualification.</p> <p>Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by BTEB.</p>	

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Unit of Competency	Practice Workplace Cleanliness
Unit Code	GN0103
Unit Descriptor	This unit covers the knowledge, skills and attitudes (KSAs) required to Practice Workplace Cleanliness. It includes five steps, namely: sort, systematize, sweep, standardize, and sustain activities.
Nominal Hours	18 hours

Elements of Competency	Performance Criteria Bold italicized words are detailed in the Range of Variables
1. Sort to dispose unnecessary items	1.1. Items in the workplace are identified and differentiated into necessary and unnecessary. 1.2. Unnecessary items are removed and disposed. 1.3. Inventory of necessary items is updated and maintained.
2. Systematize the workplace	2.1. Necessary items are supplied with identification marks and arranged. 2.2. The best location to place the necessary items is identified. 2.3. Necessary items are regularly checked in their assigned location.
3. Sweep the workplace	3.1. The workplace is kept neat, clean and tidy before, during and after work hours. 3.2. Tools and equipment are kept clean. 3.3. Minor repairs are done to tools and equipment, when necessary. 3.4. Defective tools and equipment are reported to proper authorities.
4. Standardize activities	4.1. Workplace activities are done. 4.2. Workplace decorum is maintained. 4.3. Accidents are reported to authority immediately. 4.4. Work is performed.
5. Sustain housekeeping activities	5.1. 5S procedure is implemented. 5.2. Bottlenecks are identified, improvements are recommended, and actions are taken.

Range Of Variables

Variable	Range (Include but are not limited to):
1. Unnecessary Items	1.1. Waste materials 1.2. Papers and other printed materials not related to work activities 1.3. Damaged tools and equipment 1.4. Non-recyclable materials
2. Minor repairs	2.1. Sharpening of tools 2.2. Tightening of nuts, bolts and screws 2.3. Replacing of parts 2.4. Application of oil and lubricants
3. Decorum	3.1. Workplace rules and regulations 3.2. Workplace Code of Ethics
4. 5S	A system of work developed in Japan for housekeeping purposes. It consists of: 4.1. Sort 4.2. Systematize 4.3. Sweep 4.4. Standardize 4.5. Sustain

Evidence Guide

1. Critical Aspects of competency	Assessment required evidence that the candidate: 1.1 Followed Evidence of the routine practice of 5S in the workplace. 1.2 Satisfied the requirements mentioned in the Performance Criteria and Range of Variables
2. Underpinning knowledge	2.1. Meaning and Application of 5S 2.2. Purposes of 5S 2.3. Methods of Identifying Weaknesses and Recommending Improvements 2.4. Principles of Efficient Workplace
3. Underpinning Skills	3.1. Communicating 3.2. Planning 3.3. Organizing 3.4. Prioritizing

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	<p>3.5. Recording</p> <p>3.6. Problem Solving</p>
4. Underpinning Attitudes	<p>4.1 Commitment to occupational health and safety</p> <p>4.2 Environmental concerns</p> <p>4.3 Eagerness to learn</p> <p>4.4 Tidiness and timeliness</p> <p>4.5 Respect for rights of peers and seniors in workplace</p> <p>4.6 Communication with peers and seniors in workplace</p>
5. Resource Implication	<p>5.1 Pens</p> <p>5.2 Telephone</p> <p>5.3 Computer</p> <p>5.4 Writing materials</p> <p>5.5 Online communication</p>
6. Methods of Assessment	<p>Competency in this unit should be assessed through:</p> <p>6.5 Direct observation.</p> <p>6.6 Oral test</p> <p>6.3 Demonstration</p> <p>6.4 Portfolio</p> <p>6.5 Written test</p>
7. Context for Assessment	<p>For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.</p>

Accreditation Requirements

Training providers must be accredited by Bangladesh Technical Education Board (BTEB), the national quality assurance body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of any national qualification.

Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by BTEB.

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Unit of Competency	Practice Occupational Health and Safety (OHS) Procedures
Unit Code	GN0104
Unit Descriptor	This unit covers the knowledge, skills and attitudes (KSAs) required in carrying out occupational and safety practices in the workplace. It includes the following: identify OHS policies and procedures, follow personal safety measures, report hazards and risks, respond to emergencies, and maintain personal well-being.
Nominal Hours	30 hours

Elements of Competency	Performance Criteria Bold italicized words are detailed in the Range of Variables
1. Identify OHS policies and procedures.	1.1. OHS policies and safe operating procedures are accessed, clarified. 1.2. Safety signs and symbols are identified and followed 1.3. Emergency response, evacuation procedures and other contingency measures are determined . 1.4. Workplace safety conditions are regularly reported to authority.
2. Apply personal health and safety practices	2.1. Personal protective equipment (PPE) and appropriate clothing are worn correctly and stored after use. 2.2. A clear and tidy workplace is maintained. 2.3. OHS equipment is maintained to keep them operational and compliant.
3. Report hazards and risks.	3.1. Hazards and risks are identified, assessed and controlled. 3.2. Terms of tolerable limits are identified 3.3. Incidents arising from hazards and risks are reported to authority 3.4. Details of incidents are recorded.
4. Respond to emergencies	4.1. Alarms and warning devices are responded to. 4.2. Workplace emergency procedures are followed. 4.3. Emergency response plans and procedures are implemented.

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5. Maintain personal well-being	5.1. OHS policies and procedures are adhered to. 5.2. OHS awareness programs are participated in. 5.3. Corrective actions are implemented to correct unsafe conditions in the workplace 5.4. “Fit to work” records are updated and maintained.
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Range Of Variables

Variable	Range (Include but are not limited to):
1. OHS Policies and Procedures	1.1. Bangladesh standards for OHS 1.2. Building Code 1.3. Fire Safety Rules and Regulations 1.4. Code of Practice 1.5. Industry Guidelines
2. Safe Operating Procedures	2.1. Orientation on emergency exits, fire extinguishers, fire escape, etc. 2.2. Emergency procedures 2.3. First Aid procedures 2.4. Tagging procedures 2.5. Use of PPE 2.6. Safety procedures for hazardous substances
3. Safety Signs and symbols	3.1. Direction signs (exit, emergency exit, etc.) 3.2. First aid signs 3.3. Danger Tags 3.4. Hazard signs 3.5. Safety tags 3.6. Warning signs
4. Personal Protective Equipment (PPE)	4.1. Gas Mask 4.2. Gloves 4.3. Safety boots 4.4. Helmet 4.5. Face mask 4.6. Overalls 4.7. Goggles and safety glasses 4.8. Ear plugs 4.9. Sun block 4.10. Chemical/Gas detectors

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5. Hazards	5.1. Chemical hazards 5.2. Biological hazards 5.3. Physical Hazards
6. Emergency Procedures	6.1. Fire fighting 6.2. Medical and first aid 6.3. Evacuation
7. “Fit to Work” records	7.1. Medical Certificate every year 7.2. Accident reports, if any

Evidence Guide

1. Critical Aspects of competency	Assessment required evidence that the candidate: 1.1 Demonstrated knowledge in practicing occupational health and safety in the workplace. 1.2 Satisfied the requirements mentioned in the Performance Criteria and Range of Variables
2. Underpinning knowledge	2.1. OHS Workplace Policies and Procedures 2.2. Work Safety Procedures 2.3. Emergency Procedures 2.4. Types of Hazards (Biological, Chemical and Physical) and Their Effects 2.5. PPE types and uses 2.6. Personal Hygiene Practices 2.7. OHS Awareness
3. Underpinning Skills	3.1. Identifying OHS policies and procedures 3.2. Following personal work safety practices 3.3. Reporting hazards and risks 3.4. Responding to emergency procedures 3.5. Maintaining physical well-being in the workplace
4. Underpinning Attitude	4.1 Commitment to occupational health and safety 4.2 Environmental concerns 4.3 Eagerness to learn 4.4 Tidiness and timeliness 4.5 Respect for rights of peers and seniors in workplace
5. Resource Implication	5.1 Pens 5.2 Telephone 5.3 Computer

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	5.4 Writing materials 5.5 Online communication
6. Methods of Assessment	Competency in this unit should be assessed through: 6.1 Direct observation. 6.2 Oral test 6.3 Demonstration 6.4 Portfolio 6.5 Written test
7. Context for Assessment	For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.
<p>Accreditation Requirements</p> <p>Training providers must be accredited by Bangladesh Technical Education Board (BTEB), the national quality assurance body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of any national qualification.</p> <p>Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by BTEB.</p>	

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Section 4. The Sector Specific Competencies

Unit of Competency:	Work in the Construction Sector
Unit Code:	CON0101
Unit Descriptor:	This unit covers the skills, knowledge and attitude in working in the construction sector. It includes the following steps: describe the organizational structure within the construction sector, identify processes and procedures, identify tools, equipment and materials, identify workplace practices, organize own workload, and practice OHS.
Nominal Hours:	24 hours

Elements of Competency	Performance Criteria Bold italicized words are detailed in the Range of Variables
1. Describe the organizational structure within the sector	1.1. Scope, nature and <i>major fields</i> of the construction sector are determined 1.2. The profile of the construction sector in relation to Bangladesh <i>employment conditions</i> is determined 1.3. Trends and technologies relevant to the sector are explained. 1.4. Relevant policies and guidelines are identified and interpreted. 1.5. <i>Instructions</i> as to procedures in achieving quality are obtained, understood and clarified.
2. Identify processes and procedures	2.1. Construction processes are identified, described and explained. 2.2. Work activities are correctly identified. 2.3. Adjustments are interpreted.
3. Identify tools, equipment and materials	3.1. Appropriate <i>manuals</i> are accessed to ensure up-to-date specifications of tools, materials and equipment. 3.2. Construction <i>tools, materials and equipment</i> are identified. 3.3. Substitutes are identified in case of non-availability.
4. Identify workplace requirements	4.1. <i>Workplace requirements</i> are identified and clarified. 4.2. Roles and responsibilities of all personnel are described. 4.3. Workplace's practices are identified. 4.4. <i>Problem-solving strategies</i> are used to address bottlenecks, inconsistencies and

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	other concerns.
5. Organize own workload	<p>5.1. Own work activities are planned and progress of work is communicated to relevant staff.</p> <p>5.2. Work activities are completed.</p> <p>5.3. Difficulties and bottlenecks are identified, and solutions are put forwarded.</p> <p>5.4. Own work is monitored against workplace standards and areas for improvement identified and acted upon.</p>
6. Practice OHS	<p>6.1. Relevant OHS practices are identified.</p> <p>6.2. Relevant OHS practices are interpreted and implemented.</p>

Range of Variables

Variables	Range (Include but are not limited to):
1. Major Fields	<p>1.1. Construction Site Support (Dogging, Rigging, etc.)</p> <p>1.2. Carpentry and Form Works</p> <p>1.3. Masonry, Brick/Block Laying and Concreting</p> <p>1.4. Surface Finishing, Tiling and Painting</p> <p>1.5. Roofing</p> <p>1.6. Plumbing</p> <p>1.7. Residential Electrical Wiring and Cabling</p>
2. Employment conditions	<p>2.1. Code of Practice</p> <p>2.2. Salary/Wage System</p> <p>2.3. Labor Practices</p> <p>2.4. Anti-Discrimination Policy</p> <p>2.5. Gender Issues</p> <p>2.6. Collective Bargaining and Other Practices</p> <p>2.7. Awards</p> <p>2.8. Procedures for Handling Disputes</p> <p>2.9. Innovations in the Sector</p>
3. Instructions	<p>3.1. Specifications and requirements</p> <p>3.2. Standard operating procedures</p> <p>3.3. Manuals of Instruction</p> <p>3.4. Operations Manual</p> <p>3.5. Environmental Guidelines</p> <p>3.6. Gender and Develop Guidelines</p>
4. Manuals	<p>4.1. Manual of Instructions</p> <p>4.2. Manual of Specifications</p>

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	4.3. Repair Manual 4.4. Quality Manual 4.5. Maintenance Procedure and Troubleshooting
5. Workplace requirements	5.1. Goals and objectives 5.2. Strategic and Operational Plans 5.3. Systems and Processes 5.4. Monitoring and Evaluation 5.5. Reports and Documentation
6. Tools & equipment and materials	Refers to all tools, equipment and materials appropriate to any of the constructions fields
7. Problem-solving strategies	7.1. Asking questions 7.2. Feedback and Feed forward system 7.3. Reference to Standard Operating Procedures 7.4. Accessing Information 7.5. Reviews 7.6. Brainstorming
8. OHS	8.1. Reporting hazards, risks and emergencies 8.2. Arrangement of workplaces 8.3. Standard Operating Procedure 8.4. Workplace environment and safety 8.5. Safe storage of tools and equipment 8.6. Use of PPE

Evidence Guide

1. Critical aspects of competency	The assessment requires evidence that the candidate: 1.1 Demonstrated knowledge in working in the Construction sector 1.2 Satisfying all the requirements mentioned in the Performance Criteria and Range of Variables
2. Underpinning knowledge	2.1. Scope and Major Divisions of the Construction Sector 2.2. Relevant Policies and Guidelines in the Construction Sector 2.3. Manuals used in the Construction Sector 2.4. Relevant Terminologies and Acronyms 2.5. Types and Uses of Construction Tools and Materials 2.6. Workplace Practices

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	2.7. Occupational Health and Safety Practices 2.8. Recording and Reporting practices
3. Underpinning Skills	3.1. Describing the organization structure 3.2. Identifying construction processes and procedures 3.3. Identifying tools, equipment and materials 3.4. Identifying workplace practices 3.5. Organizing own workload 3.6. Practicing OHS
4. Underpinning Attitude	4.1 Commitment to occupational health and safety 4.2 Environmental concerns 4.3 Eagerness to learn 4.4 Tidiness and timeliness 4.5 Respect for rights of peers and seniors in workplace
5. Resource Implication	5.1 Pens 5.2 Telephone 5.3 Computer 5.4 Writing materials 5.5 Online communication
6. Methods of Assessment	Competency in this unit should be assessed through: 6.3 Direct observation. 6.4 Oral test 6.3 Demonstration 6.4 Portfolio 6.5 Written test
7. Context for Assessment	For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.

Accreditation Requirements

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Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by BTEB.

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Unit of Competency:	Interpret Drawings and Specifications in Construction Manuals
Unit Code:	CON0102
Unit Descriptor:	This unit covers the knowledge, skill and attitude required in interpreting drawings and specifications in construction documents. It includes the following steps: identify information, identify drawings and specifications, interpret drawings and specifications, and apply occupational health and safety procedures.
Nominal Hours:	30 hours

Elements	Performance Criteria Bold italicized words are detailed in the Range of Variables
1. Identify information from manuals	1.1. Appropriate <i>manuals</i> are identified and accessed. 1.2. Version and date of manual are checked to ensure up-to-date specifications of tools, equipment, materials and procedures.
2. Identify drawings and specifications	2.1. Relevant <i>drawings</i> and <i>specifications</i> are correctly identified. 2.2. <i>Terms and abbreviations</i> are identified. 2.3. <i>Signs and symbols</i> are identified
3. Interpret drawings and specifications	3.1. Drawings and specifications are interpreted. 3.2. Schedules, dimensions and specifications contained in drawings are interpreted.
4. Store manuals	4.1. Documents are collected and packed. 4.2. Documents are stored appropriately to prevent damage, ready access and updating of information when required.

Ranges of Variables

Variable	Range (Include but are not limited to):
1. Documents	1.1 Manufacturer's Specification Manual 1.2 Repair Manual 1.3 Maintenance Procedure Manual 1.4 Periodic Maintenance Manual 1.5. Quality Manual 1.6. Manual of Instruction
2. Drawings	2.1. Technical Drawings

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	2.2. Sketch
3. Specifications	3.1. Product specifications 3.2. Performance specifications 3.3. Method specifications
4. Instructions	4.1. Orders 4.2. Special Orders
5. Terms and abbreviations	Refers to all terms and abbreviations associated with the Construction Sector
6. Signs and symbols	Include all signs and symbols associated with the construction sector

Evidence Guide

1. Critical aspects of competency	The assessment requires evidence that the candidate: 1.1 Interpret drawings and specifications in construction documents 1.2. Satisfying the requirements mentioned in the Performance Criteria and Range of Variables
2. Underpinning knowledge	2.1 Types of Construction Manuals 2.2 Identification of Signs and Symbols 2.3 Identification of Units of Measurement 2.4 Identification of Units of Conversion 2.5. Drawings and Specifications 2.6. Terms and Abbreviations Used
3. Underpinning skills	3.1. Identifying appropriate manuals 3.2. Identifying drawings and specifications 3.3. Interpreting drawings and specifications 3.4. Storing manuals
4. Underpinning Attitude	4.1 Commitment to occupational health and safety 4.2 Environmental concerns 4.3 Eagerness to learn 4.4 Tidiness and timeliness 4.5 Respect for rights of peers and seniors in workplace
5. Resource Implication	5.1 Pens 5.2 Telephone 5.3 Computer 5.4 Writing materials 5.5 Online communication
6. Methods of	Competency in this unit should be assessed

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Assessment	through: 6.1 Direct observation. 6.2 Oral test 6.3 Demonstration 6.4 Portfolio 6.5 Written test
7. Context for Assessment	For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.
<p>Accreditation Requirements</p> <p>Training providers must be accredited by Bangladesh Technical Education Board (BTEB), the national quality assurance body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of any national qualification.</p> <p>Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by BTEB.</p>	

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Unit of Competency	Use Hand Tools and Power Tools for the Construction Sector
Unit Code	CON0103
Unit Descriptor	This unit covers the skills, knowledge and attitude in using appropriate hand tools and power tools for the construction sector. It includes the following steps: identify tools, use hand tools, use power tools, Perform basic preventive maintenance, practice OHS, and Store tools and equipment.
Nominal Hours	30 hours

Elements of Competency	Performance Criteria <i>Bold italicized</i> words are detailed in the Range of Variables
1. Identify tools	1.1. Appropriate tools are selected. 1.2. Applications of tools are defined. 1.3. Hand tools and power tools are prepared. 1.4. Sources of power supply for power tools recognized.
2. Use hand tools	2.1. Appropriate tool is used. 2.2. Proper hand-eye coordination is applied in the use of hand tools. 2.3. Unsafe or faulty tools are identified and marked for repair.
3. Use power tools	3.1. Route for power supply established in accordance with worker safety requirements. 3.2. Proper sequence of operations is applied in using power tools to produce results. 3.3. Power tools are used.
4. Perform basic preventive maintenance.	4.1. Tools and equipment are cleaned. 4.2. Appropriate lubricants are identified. 4.3. Tools and equipment are lubricated. 4.4. Measuring instruments are checked and calibrated. 4.5. Defective instruments, equipment and accessories are inspected and corrected or replaced 4.6. Tools are inspected, repaired and replaced after use. 4.7. The workplace is cleaned and cleared of

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	debris and unwanted materials.
5. Practice OHS	<p>5.1. Waste materials are disposed.</p> <p>5.2. Hazardous materials are identified for separate handling.</p> <p>5.3. PPE are used.</p> <p>5.4. Devices to suppress dust are used.</p> <p>5.5. Safety requirements are being adhered to before, during and after use.</p> <p>5.6. Accidents and emergency cases are reported.</p> <p>5.7. The workplace is cleaned and cleared of debris and unwanted materials.</p>
6. Store tools and equipment	<p>6.1. Inventory of tools equipment are conducted, and recorded as per stock register by using forms.</p> <p>6.2. Tools and equipment are cleaned and stored safely in appropriate location.</p>

Range of Variables

Variables	Range (Include but are not limited to):
1. Tools	<p>1.1. Hand Tools</p> <p>1.2. Power Tools</p>
2. Applications	<p>2.1. Adjusting</p> <p>2.2. Aligning</p> <p>2.3. Assembling</p> <p>2.4. Boring</p> <p>2.5. Clamping</p> <p>2.6. Cleaning</p> <p>2.7. Cutting</p> <p>2.8. Dismantling</p> <p>2.9. Finishing</p> <p>2.10. Hand sharpening</p> <p>2.11. Lubricating</p> <p>2.12. Scraping</p> <p>2.13. Simple Tool Repairs</p> <p>2.14. Threading</p> <p>2.15. Tightening</p>
3. Hand tools	<p>3.1. Hacksaw</p> <p>3.2. Hammers</p> <p>3.3. Hand drill</p> <p>3.4. Hand saws</p>

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	3.5. Measuring Tapes 3.6. Paint Brushes/Rollers 3.7. Pliers 3.8. Plumb bob 3.9. Punches 3.10. Scarpers 3.11. Spatula/Putty Knives 3.12. Steel tape measure 3.13. Taps 3.14. Triangle 3.15. Trowels and Floats
4. Power Tools	4.1. Compressor 4.2. Spray machine
5. Instructions	5.1. Manufacturer's Specifications and Instructions for specific tools/equipment 5.2. Workplace orders and instructions 5.3. Work schedule documentation 5.4. Procedures
6. PPE	6.1. Dust mask 6.2. Safety glasses/Goggles 6.3. Gloves 6.4. Aprons 6.5. Face masks 6.6. Overalls
7. Forms	7.1. Maintenance schedule forms 7.2. Requisition slip 7.3. Inventory Form 7.4. Inspection Forms 7.5. Procedures

Evidence Guide

1. Critical aspects of competency	Assessment requires evidence that the candidate: 1.1 Demonstrated knowledge in using hand tools
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	<p>and power tools</p> <p>1.2 Satisfied the requirements mentioned in the Performance Criteria and Range of Variables</p>
2. Underpinning knowledge	<p>2.1. Types of Tools</p> <p>2.1.1. Hand Tools</p> <p>2.1.2. Power Tools</p> <p>2.2. Technical Application of Tools</p> <p>2.3. Procedures in the Use of Hand Tools and Power Tools</p> <p>2.4. Policies and procedures for Occupational health and Safety</p> <p>2.4.1. Use of PPE</p> <p>2.4.2. Handling of Tools and Equipment</p> <p>2.4.3. Reporting and Documentation</p> <p>2.5. Preventive Maintenance</p> <p>2.5.1. Methods and Techniques</p> <p>2.5.2. Quality Procedures</p> <p>2.6. Storage Procedures</p>
3. Underpinning Skills	<p>3.1. Collection of appropriate Tools</p> <p>3.2. Using Hand Tools Correctly</p> <p>3.3. Using Power Tools Correctly</p> <p>3.4. Performing Preventive Maintenance</p> <p>3.5. Practicing OHS</p> <p>3.6. Storing tools and equipment</p> <p>3.7. Cleaning Up</p>
4. Underpinning Attitude	<p>4.1 Commitment to occupational health and safety</p> <p>4.2 Environmental concerns</p> <p>4.3 Eagerness to learn</p> <p>4.4 Tidiness and timeliness</p> <p>4.5 Respect for rights of peers and seniors in workplace</p>
5. Resource Implications	<p>The following resources must be provided</p> <p>5.1 Adequate workplaces</p> <p>5.2 Construction materials</p> <p>5.3 Tools appropriate to the construction process</p> <p>5.4 Information and documentation</p> <p>5.5 Product specifications</p> <p>5.6 Manual, Codes, Standards and reference materials</p>

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6.Methods of Assessment	Competency in this unit should be assessed through: 6.5 Direct observation. 6.6 Oral test 6.3 Demonstration 6.4 Portfolio 6.5 Written test
7. Context for Assessment	For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.
<p>Accreditation Requirements</p> <p>Training providers must be accredited by Bangladesh Technical Education Board (BTEB), the national quality assurance body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of any national qualification.</p> <p>Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by BTEB.</p>	

Section 5. The Occupation Specific Competencies

Unit of Competency	Prepare Tools, Equipment and Materials for painting.
Unit Code	CONPNT0101
Unit Descriptor	This unit covers the knowledge, skills and attitude required to prepare tools, equipment and materials for painting. It includes collecting tools, equipment and materials, preparing paints and tools & equipment for painting.
Nominal Hour	45 hours

Elements	Performance Criteria <i>Bold italicized</i> words are detailed in the Range of Variables
1. Collect tools, equipment and materials.	1.1 Instructions & manuals are secured and Interpreted. 1.2 Appropriate PPE are selected and used. 1.3 Painting materials, tools and equipment are identified and collected based on work schedule & job requirements.
2. Prepare paints, Tools & Equipment	2.1 Areas to be painted are measured. 2.2 Safety precautions are observed during preparation of paint materials. 2.3 Paints are identified, prepared and staged, stored consistent with job requirements. 2.4 Tools & Equipment are prepared in accordance with job requirements. 2.5 Unexpected situations are responded to in line with company rules and regulations.

Range of Variables

Variables	Range (Include but are not limited to):
1. Painting materials	1.1 Base coat materials 1.1.1 Metal primer 1.1.2 Wood primer 1.1.3 Concrete sealer 1.2 Enamel paint (flat, gloss, semi-gloss) 1.3 Elastomeric / Latex paint. 1.4 Paint/Lacquer thinner 1.5 Empty cans.

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	<ul style="list-style-type: none"> 1.6 Rust converter rusted surfaces. 1.7 Patching compound (putty, decollate/calcimine powder) 1.8 Alkaline remover 1.9 Rags 1.10 Litmus paper 1.11 Water 1.12 Soaped water 1.13 Waterproof sand paper 1.14 Solvent
2. Tools and equipment	<ul style="list-style-type: none"> 2.1 Mixer 2.2 Spatula /putty knife (palette) 2.3 Screw driver 2.4 Hammer 2.5 Lifeline and anchorage 2.6 Paint brush 2.7 Roller brush 2.8 Colour charts 2.9 Spray/Mortar gun 2.10 Air compressor 2.11 Sand papers 2.12 Steel brush or Cap brush 2.13 Scaffold 2.14 Ladder 2.15 Paint mixer
4. Manuals	<ul style="list-style-type: none"> 1. Instruction sheet 2. Hand note 3. Catalogs 4. Reference book
3. PPE	<ul style="list-style-type: none"> 3.1 Body harness/Safety belt 3.2 Gloves 3.3 Safety shoes 3.4 Hard hat 3.5 Respirator/Dust mask 3.6 Goggles 3.7 Ear muff/Plug 3.8 Aprons
4.Unexpected situations	<ul style="list-style-type: none"> 4.1 Damaged to materials 4.2 Injury to personnel

Evidence Guide

1. Critical aspects of competency	<p>Assessment requires evidence that the candidate:</p> <p>1.1 Interpreted instructions & Manuals appropriately</p> <p>1.2 Selected and Collected materials, tools & equipment</p> <p>1.3 Measured painting area carefully</p> <p>1.4 Prepared paints and store</p>
2. Underpinning knowledge	<p>2.1 Materials uses and specifications</p> <p>2.1.1 Types of paint</p> <p>2.1.2 Types of thinner/reducer</p> <p>2.1.3 Grades of sand paper</p> <p>2.1.4 Types of patching compound</p> <p>2.2 Tools and equipment.</p> <p>2.3 Types of paint brush hand tools</p> <p>2.4 Types of measuring hand tools</p> <p>2.5 Function of painting hand tools</p> <p>2.6 Safety use of Scaffoldings</p> <p>2.7 Painting schedule</p>
3. Underpinning Skills	<p>3.1 Selecting and handling painting materials, tools and equipment.</p> <p>3.2 Interpreting Plans and Manuals</p> <p>3.3 Preparing paint coats</p>
4. Underpinning Attitudes	<p>4.1 Commitment to occupational health and safety</p> <p>4.2 Environmental concerns</p> <p>4.3 Eagerness to learn</p> <p>4.4 Tidiness and timeliness</p> <p>4.5 Respect for rights of peers and seniors in Workplace</p>
5. Resource Implications	<p>Things necessary to conduct method of assessment:</p> <p>5.1 Workplace location</p> <p>5.2 Tools and equipment appropriate to work processes</p> <p>5.3 Materials relevant to the proposed activity</p>

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	5.4 Working drawings, instructions and specifications relevant of the task 5.5 Appropriate PPE
6.Methods of Assessment	Competency in this unit should be assessed through: 6.1 Direct observation. 6.2 Oral test 6.3 Demonstration 6.4 Portfolio 6.5 Written test
7. Context for Assessment	For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.

Accreditation Requirements

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Unit of Competency	Prepare Surface for white washing.
Unit Code	CONPNT0102
Unit Descriptor	This unit covers the knowledge, skills and attitude required to prepare surface for painting. It includes inspecting surface and cleaning surface for painting.
Nominal Hours	45 Hours

Elements	Performance Criteria
	<i>Bold italicized</i> terms are elaborated in the Range of Variables
1. Inspect Surface	1.1. <i>Scaffolds</i> /Platforms/Guard rail systems/ Ladders are laid - out & assembled consistent with detailed plans & specifications. 1.2. <i>Surfaces</i> are inspected in line with job requirements & standard operating procedures. 1.3. Area is checked against painting schedule & plans 1.4. <i>Foreign particles</i> are checked according to job requirements.
2. Clean surface	2.1 Appropriate <i>PPE</i> are used as per instruction. 2.2 Surfaces are sanded smoothly according to requirements. 2.3 Surface with <i>minor imperfection</i> are primed/putted according to job. 2.4 Worksite is cleaned & waste materials are disposed as per instructions.

Range Of Variables

Variables	Range (Include but are not limited to):
1. Scaffolds	1.1 7 meter high 1.2 2 meter long
2. Surface	2.1 Wall 2.2 Ceiling
3. Foreign matters	3.1 Substances/Chemicals

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	3.1.1 Grease 3.1.2 Oil 3.1.3 Alkaline 3.1.4 Dust 3.1.5 Rust 3.2 Exposed nails/rebar's/wires
4.PPE	4.1 Body harness/Safety belt 4.2 Gloves 4.3 Safety Shoes 4.4 Hard Hat 4.5 Respirator/Dust mask 4.6 Goggles 4.7 Overall Coat & Pants
5. Minor imperfection	5.1 Minor cracks 5.2 Surface imperfection 5.3 Dents 5.4 Holes
6.Unexpected Situations	6.1 Damaged to materials 6.2 Injury to personnel.

Evidence Guide

1. Critical aspects of competency	Assessment requires evidence that the candidate: 1.1 Laid out and assembled scaffolds/ platforms/guard rail systems/ladders consistent with specifications. 1.2 Inspected surfaces in line with job requirements and standard operating procedures. 1.3 Sanded surfaces smoothly according to industry requirements and appropriate chemicals are when necessary. 1.4 Primed minor imperfection
2. Underpinning Knowledge	2.1 Safety and maintenance 2.1.1 Safety rules and regulations 2.1.2 Fire prevention 2.1.3 First aid treatment

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	<p>2.2 Proper handling and care of tools, materials and Equipment.</p> <p>2.3 Grades of sandpaper</p> <p>2.4 Mathematics and Mensuration</p> <p>2.5 Tools and equipment</p> <p>2.5.1 Sander (Pneumatic)</p> <p>2.5.2 Hand tools (Brush, Spatula, hammer, nail set)</p> <p>2.6 Methods and procedures</p> <p>2.7 Methods/Procedures of surface Preparation</p>
3. Underpinning Skills	<p>3.1 Following safety maintenance procedures</p> <p>3.2 Staging/preparing scaffolds</p> <p>3.3 Interpreting specifications</p> <p>3.4 Applying Mensuration</p> <p>3.5 Following 5S</p> <p>3.6 Preparing surfaces for:</p> <p>3.6.1 Wall</p> <p>3.6.2 Ceiling</p> <p>3.7 Smoothing surfaces</p>
4. Underpinning Attitudes	<p>4.1 Commitment to occupational health and safety</p> <p>4.2 Environmental concerns</p> <p>4.3 Eagerness to learn</p> <p>4.4 Tidiness and timeliness</p> <p>4.5 Respect for rights of peers and seniors in workplace</p> <p>4.6 Communication with peers and seniors in workplace</p>
5. Resource Implications	<p>Things necessary to conduct Method of Assessment:</p> <p>5.1 Workplace location</p> <p>5.2 Tools and equipment appropriate to work processes</p> <p>5.3 Materials relevant to the proposed activity.</p> <p>5.4 Appropriate PPE</p>
6. Methods of Assessment	<p>Competency in this unit should be assessed through:</p> <p>6.1 Direct observation.</p>

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	6.2 Oral test 6.3 Demonstration 6.4 Portfolio 6.5 Written test
7. Context for Assessment	For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.
<p>Accreditation Requirements</p> <p>Training providers must be accredited by Bangladesh Technical Education Board (BTEB), the national quality assurance body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of any national qualification.</p> <p>Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by BTEB.</p>	

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Unit of Competency	Perform White Wash
Unit Code	CONPNT0103
Unit Descriptor	This unit covers the knowledge, skills and attitude required to perform white wash. It includes: collecting tools and equipment; Mix materials, Prepare Surface, applying white wash and completing white wash
Nominal Hours	45

Elements	PERFORMANCE CRITERIA Bold and Italicized terms are elaborated in the Range of Variables
1. Collect tools and equipment	1.1 Work instruction is secured and interpreted. 1.2 PPE are selected and used. 1.3 Tools and equipment are selected and collected. 1.4 Safety is observed in line with OHS. 1.5 Unexpected situations are dealt in accordance with rules and regulations.
2. Prepare Surface	2.1 The surface are cleaned with wire brush 2.2 The surface are cleaned with broom or soft brush. 2.3 Putty or cement mortar in broken/cracked place are applied. 2.4 The surface is planed with Putty 2.5 The surface washed with fresh water. 2.6 The surfaces are dried out.
3. Mix materials	3.1 Mixing ratio of materials are maintained. 3.2 White wash materials are consistently mixed and screened.
4. Apply white wash	4.1 Horizontal/vertical coating of white wash are applied on the working surface. 4.2 After drying horizontal/vertical coating is applied on the working surface. 4.3 After ensuring the dryness of first coating, final coating of white wash is applied as required.
5. Complete work	5.1 Quality of white wash is checked and

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	<p>rectified as required.</p> <p>5.2 Tools, equipment and any surplus resources and materials are checked and monitored in accordance with established procedures.</p> <p>5.3 Scaffolds/Platform/ systems are dismantled, staged and stored in conformity with correct procedures and specifications</p>
6. Clean workplace	<p>6.1 Tools and equipments are cleaned</p> <p>6.2 Work place is cleaned</p> <p>6.3 Waste materials are disposed in proper place.</p>

Range Of Variables

Variables	Range (Include but are not limited to):
1. PPE	<p>1.1 Gloves</p> <p>1.2 Dust mask</p> <p>1.3 Safety shoes</p> <p>1.4 Hard hat/Helmet</p> <p>1.5 Respirator</p> <p>1.6 Safety Belt</p> <p>1.7 Goggles</p> <p>1.8 Working clothes</p>
2. Tools and equipment	<p>2.1 Jute brushes</p> <p>2.2 Scraper</p> <p>2.3 Chisel</p> <p>2.3 Spatula</p> <p>2.6 Mixing stick</p> <p>2.7 Rags</p> <p>2.8 Putty Knife</p> <p>2.9 Lifeline and anchorage</p> <p>2.10 Steel brush or cap brush</p>
3. White wash materials	<p>3.1 Sand paper</p> <p>3.2 Blue</p> <p>3.3 Glue</p> <p>3.4 Lime</p> <p>3.5 Water</p>

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	3.6 Empty cans
	3.7 Patching compound (Putty, decollate/kalsomine powder)

Evidence Guide

1. Critical aspects of competency	<p>Assessment requires evidence that the learner:</p> <p>1.1 Interpreted instructions & manuals.</p> <p>1.2 Maintained the proper ratio of water, lime, gum and blue.</p> <p>1.3 Mixed the materials consistently</p> <p>1.4 Applied first and second coding of white wash sequentially and perfectly</p> <p>1.5 Cleaned workplace and disposed waste materials</p> <p>1.6 Maintained OHS</p>
2 Underpinning Knowledge	<p>2.1 Safety and maintenance</p> <p>2.1.1 Safety rules and regulations</p> <p>2.1.2 Proper handling and care of tools and equipment</p> <p>2.1.3 Maintenance of Tools & equipment</p> <p>2.1.4 Housekeeping procedure</p> <p>2.2 White washing technique</p> <p>2.3 Scaffolding</p>
3 Underpinning Skills	<p>3.1 Interpreting Instructions & Manuals.</p> <p>3.2 Following safety procedures</p> <p>3.3 Selecting and preparing white wash material, tools and equipment</p> <p>3.4 Applying coating of white wash.</p> <p>3.5 Following procedures for maintaining staging and storing of tools and equipment</p>
4. Underpinning Attitudes	<p>4.1 Commitment to occupational health and safety</p> <p>4.2 Environmental concerns</p> <p>4.3 Eagerness to learn</p> <p>4.4 Tidiness and timeliness</p> <p>4.5 Respect for rights of peers and seniors in workplace</p> <p>4.6 Communication with peers and seniors in</p>

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	workplace
5.Resource Implications	<p>Things necessary for the conduct of method of assessment</p> <p>5.1 Adequate workplace</p> <p>5.2 Tools and equipment appropriate to colour wash</p> <p>5.3 Materials relevant to the proposed activity</p> <p>5.4 Appropriate PPE</p>
6.Methods of Assessment	<p>Competency in this unit should be assessed through:</p> <p>6.1 Direct observation.</p> <p>6.2 Oral test</p> <p>6.3 Demonstration</p> <p>6.4 Portfolio</p> <p>6.5 Written test</p>
7. Context for Assessment	<p>For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.</p>
<p>Accreditation Requirements</p> <p>Training providers must be accredited by Bangladesh Technical Education Board (BTEB), the national quality assurance body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of any national qualification.</p> <p>Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by BTEB.</p>	

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Unit of Competency	Perform Colour Wash
Unit Code	CONPNT0104
Unit Descriptor	This unit covers the knowledge, skills and attitude required to perform colour wash. It includes: collecting tools and equipment; mixing colour wash materials; applying colour wash; completing color wash; and complete the color wash.
Nominal Hours	45 Hours

Elements	PERFORMANCE CRITERIA Bold and Italicized terms are elaborated in the Range of Variables
1. Collect tools and equipment	1.1 Work instruction is secured and interpreted. 1.2 Appropriate PPE are selected and used according to job requirements. 1.3 Proper tools and equipment are prepared in line with the job requirements. 1.4 Safety is observed in line with OHS. 1.5 Unexpected situations are dealt in accordance with company rules and regulations.
2. Mix materials	2.1 Mixing ratio of materials are maintained. 2.2 Color wash materials are consistently mixed and screened.
3. Apply colour wash	3.1 Base coat is applied before colour washing. 3.2 Horizontal/vertical coating of colour wash are applied on the working surface. 3.3 After drying horizontal/vertical coating is applied on the working surface. 3.4 After ensuring the dryness of first coating, final coating of color wash is applied as required.
4. Complete work	4.1 Quality of white wash is checked and rectified as required. 4.2 Tools, equipment and any surplus resources and materials are checked and monitored in accordance with established procedures. 4.3 Scaffolds/platform/ systems are dismantled, staged and stored in conformity with correct

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	procedures and specifications
5.Clean workplace	5.1 Tools and equipment's are cleaned 5.2 Work place is cleaned 5.2 Waste materials are disposed in proper place.

Range Of Variables

Variables	Range (Include but are not limited to) :
1. Tools and equipment	1.1 Jute brushes 1.2 Scraper 1.3 Chisel 1.3 Spatula 1.6 Mixing stick 1.7 Rags 1.8 Putty Knife 1.9 Stone 1.10 Lifeline and anchorage 1.11 Steel brush or cap brush
2. Materials	2.1 Sand paper 2.2 Pigment 2.3 Glue 2.4 Lime 2.5 Water 2.6 Empty cans 2.7 Patching compound (Putty, decollate/kalsomine powder)
3. PPE	3.1 Gloves 3.2 Dust mask 3.3 Safety shoes 3.4 Hard hat 3.5 Respirator 3.6 Belt/body harness 3.7 Goggles 3.8 Working clothes

Evidence Guide

1. Critical aspects of competency	Assessment requires evidence that the learner: 1.1 Interpreted instructions & manuals appropriately
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	<p>1.2 Maintained the proper ratio of water, lime and blue/pigment</p> <p>1.3 Mixed the materials consistently</p> <p>1.4 Applied first and second coating of colour wash sequentially and perfectly materials</p>
2. Underpinning knowledge	<p>2.1 Safety and maintenance</p> <p>2.1.2 Safety rules and regulations</p> <p>2.1.3 First aid</p> <p>2.1.5 Proper handling and care of tools and equipment</p> <p>2.1.6 Maintenance of Tools & equipment</p> <p>2.2 Color wash principle/technique</p> <p>2.3 Scaffold</p> <p>2.3.1 Scaffold erection</p> <p>2.3.2 Scaffold dismantling</p> <p>2.4 Procedures of color wash application</p>
3. Underpinning Skills	<p>3.1 Interpreting specifications</p> <p>3.2 Follow safety and maintenance procedures</p> <p>3.3 Selecting and preparing colour wash material, tools and equipment</p> <p>3.5 Applying color wash coat.</p> <p>3.6 Follow procedures for maintaining staging and storing of tools and equipment</p>
4. Underpinning Attitudes	<p>4.1 Commitment to occupational health and safety</p> <p>4.2 Environmental concerns</p> <p>4.3 Eagerness to learn</p> <p>4.4 Tidiness and timeliness</p> <p>4.5 Respect for rights of peers and seniors in workplace</p> <p>4.6 Communication with peers and seniors in workplace</p>
5. Resource Implications	<p>Things necessary for the conduct of method of assessment include:</p> <p>5.1 Adequate workplace</p> <p>5.2 Tools and equipment appropriate to colour wash</p> <p>5.3 Materials relevant to the proposed activity</p> <p>5.4 Appropriate PPE</p>
6. Methods of	Competency in this unit should be assessed

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Assessment	through: 6.1 Direct observation. 6.2 Oral test 6.3 Demonstration 6.4 Portfolio 6.5 Written test
7. Context for Assessment	For certification competency should be assessed in the actual workplace or in a simulated workplace individually after completion of the module.
<p>Accreditation Requirements</p> <p>Training providers must be accredited by Bangladesh Technical Education Board (BTEB) , the national quality assurance body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of any national qualification.</p> <p>Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by BTEB.</p>	

Annexes

Annex 1. Competency Map for Painter in Construction Sector.

OCCUPATION COMPETENCIES	Prepare tools, equipment and materials for painting	Prepare surface for white washing.	Perform white washing	Perform colour washing	Perform Distempering	Perform aluminum paint
	1	1	1	1	2	2
	Perform plastic emulsion paint	Perform weather coat painting	Perform synthetic enamel painting	Perform cement painting	Perform spray painting	Perform varnishing
	2	2	2	3	3	3
	Perform French polish	Perform Estimate for painting				
	3	3				
SECTOR SPECIFIC COMPETENCIES	Work in the construction sector	Use hand tools and power tools for painting	Interpret drawings and specifications in painting	Perform Measurement & calculations in painting		
	1	1	1	2		
GENERIC COMPETENCIES	Communicate in the workplace	Work in a team environment	Practice workplace cleanliness	Practice occupational health and safety	Lead small teams	Demonstrate work values
	1	1	1	1	3	3
	Practice negotiation skills					
	3					

Annex 2. Bangladesh National Qualifications Framework

TVQF Level	Education Type			Current Qualification Structure	Job Classification
	Pre-Voc	VE	TE		
TVQF 6			Diploma	4-year Diploma	Supervisor/Middle Manager/Sub-Assistant Engineer
TVQF 5		**NSC-V		NSS Master	Highly-Skilled Worker/Supervisor
TVQF 4		**NSC-IV		NSS 1/HSC (Voc) Year 11/12	Skilled Worker
TVQF 3		**NSC-III		NSS 2/SSC (Voc) Year 10	Semi-Skilled Worker
TVQF 2		**NSC-II		NSS 3/SSC (Voc) Year 9	Basic Skilled Worker
TVQF 1		**NSC-I		NSS Basic/Basic Trade Course	Basic Worker
Pre-Voc 2	*NPVC-II			None	Pre-Vocational Trainee
Pre-Voc 1	*NPVC-I			None	Pre-Vocational Trainee

*NPVC – National Pre-Vocational Certificate

**NSC – National Skill Certificate

Annex 3. Qualification Level Descriptors

BTVQF Level	Knowledge	Skill	Responsibility	Job Class
6	Comprehensive actual and theoretical knowledge within a specific study area with an awareness of the limits of that knowledge.	Specialised and restricted range of cognitive and practical skills required to provide leadership in the development of creative solutions to defined problems	Manage a team or teams in workplace activities where there is unpredictable change Identify and design learning programs to develop performance of team members	Supervisor/Middle-Level Manager/Sub Assistant Engineer
5	Very broad knowledge of the underlying, concepts, principles, and processes in a specific study area	Very broad range of cognitive and practical skills required to generate solutions to specific problems in one or more study areas.	Take overall responsibility for completion of tasks in work or study Apply past experiences in solving similar problems	Highly Skilled Worker/Supervisor (NSC 4)
4	Broad knowledge of the underlying, concepts, principles, and processes in a specific study area	Range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying the full range of methods, tools, materials and information	Take responsibility, within reason, for completion of tasks in work or study Apply past experiences in solving similar problems	Skilled Worker
3	Moderately broad knowledge in a specific study area.	Basic cognitive and practical skills required to use relevant information in order to carry out tasks and to solve routine problems using simple rules and tools	Work or study under supervision with some autonomy	Semi Skilled worker
2	Basic underpinning knowledge in a specific study area.	Basic skills required to carry out simple tasks	Work or study under indirect supervision in a structured context	Medium Skilled Worker

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BTVQF Level	Knowledge	Skill	Responsibility	Job Class
1	Elementary understanding of the underpinning knowledge in a specific study area.	Limited range of skills required to carry out simple tasks	Work or study under direct supervision in a structured context	Basic Skilled Worker
Pre-Voc 2	Limited general knowledge	Very limited range of skills and use of tools required to carry out simple tasks	Work or study under direct supervision in a well-defined, structured context.	Pre-Vocation Trainee (NPVC 2)
Pre-Voc 1	Extremely limited general knowledge	Minimal range of skills required to carry out simple tasks	Simple work or study exercises, under direct supervision in a clear, well defined structured context	Pre-Vocation Trainee (NPVC 1)

Annex 4. Key for Coding

Code	Description
Occupational Sector	
RMG	Ready-Made Garments
LEG	Light Engineering
CON	Construction
INF	Informal Sector
Occupation	
MAS	Mason
PLM	Plumbing
PNT	Painting
Competencies	
GN	Generic Competencies
SCC	Sector Specific Competency
OCC	Occupation Specific Competency

Acknowledgments

The Bangladesh Technical Education Board (BTEB) wishes to extend heartfelt thanks and appreciation to the business and industry, academic community and other government agencies who shared their precious time and expertise to the conceptualization, development, validation and finalization of this National Competency Standards.

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