



COMPETENCY STANDARD FOR BLOCK BATIK AND SCREEN PRINTING

Level: 3

(Informal Sector)

Competency Standard Code: CS-INF-BBSP-L3-EN-V1



**National Skills Development Authority
Prime Minister's Office
Government of the People's Republic of Bangladesh**

Copyright

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This Competency Standard for Block Batik and Screen Printing is a document for the development of curricula, teaching and learning materials, and assessment tools. It also serves as the document for providing training consistent with the requirements of industry in order to meet the qualification of individuals who graduated through the established standard via competency-based assessment for a relevant job.

This document has been developed by NSDA in association with Informal Sector, industry representatives, academia, related specialist, trainer and related employee.

Public and private institutions may use the information contained in this standard for activities benefitting Bangladesh.

Introduction

The NSDA aims to enhance an individual's employability by certifying completeness with skills. NSDA works to expand the skilling capacity of identified public and private training providers qualitatively and quantitatively. It also aims to establish and operationalize a responsive skills ecosystem and delivery mechanism through a combination of well-defined set of mechanisms and necessary technical supports.

Key priority economic growth sectors identified by the government have been targeted by NSDA to improve current job skills along with existing workforce to ensure required skills to industry standards. Training providers are encouraged and supported to work with industry to address identified skills and knowledge to enable industry growth and increased employment through the provision of market responsive inclusive skills training program. "**Block Batik and Screen Printing**" is selected as one of the priority occupations of Informal Sector. This standard is developed to adopt a demand driven approach to training with effective inputs from Industry Skills Councils (ISC's), employer associations and employers.

Generally, a competency standard informs curriculum, learning materials, assessment and certification of trainees enrolled in Skills Training. Trainees who successfully pass the assessment will receive a qualification in the National Skills Qualification Framework (NSQF) under Bangladesh National Qualification Framework and will be listed on the NSDA's online portal.

This competency standard is developed to improve skills and knowledge in accordance with the job roles, duties and tasks of the occupation and ensure that the required skills and knowledge are aligned to industry requirements. A series of stakeholder consultations, workshops were held to develop this document.

The document also details the format, sequencing, wording and layout of the Competency Standard for an occupation which is comprised of Units of Competence and its corresponding Elements.

Overview

A competency standard is a written specification of the knowledge, skills and attitudes required for the performance of an occupation, trade or job corresponding to the industry standard of performance required in the workplace.

The purpose of a competency standards is to:

- provide a consistent and reliable set of components for training, recognising and assessing people's skills, and may also have optional support materials
- enable industry recognised qualifications to be awarded through direct assessment of workplace competencies
- encourage the development and delivery of flexible training which suits individual and industry requirements
- encourage learning and assessment in a work-related environment which leads to verifiable workplace outcomes

Competency standards are developed by a working group comprised of representative from NSDA, Key Institutions, ISC, and industry experts to identify the competencies required of an occupation in Informal Sector.

Competency standards describe the skills, knowledge and attitude needed to perform effectively in the workplace. CS acknowledge that people can achieve technical and vocational competency in many ways by emphasizing what the learner can do, not how or where they learned to do it.

With competency standards, training and assessment may be conducted at the workplace or at training institute or any combination of these.

Competency standards consist of a number of units of competency. A unit of competency describes a distinct work activity that would normally be undertaken by one person in accordance with industry standards.

Units of competency are documented in a standard format that comprises of:

- unit title
- nominal duration
- unit code
- unit descriptor
- elements and performance criteria
- variables and range statement
- curricular content guide
- assessment evidence guide

Together, all the parts of a unit of competency:

- describe a work activity
- guide the assessor to determine whether the candidate is competent or not yet competent

The ensuing sections of this document comprise of a description of the relevant occupation, trade or job with all the key components of a unit of competency, including:

- a chart with an overview of all Units of Competency for the relevant occupation, trade or job including the Unit Codes and the Unit of Competency titles and corresponding Elements
- the Competency Standard that includes the Unit of Competency, Unit Descriptor, Elements and Performance Criteria, Range of Variables, Curricular Content Guide and Assessment Evidence Guide.

**Competency Standards for National Skill Certificate, Level-3 in
Block Batik and Screen Printing in Informal Sector**

Level Descriptors of NSQF (BNQF 1-6)

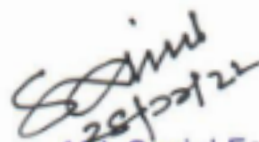
Level & Job classification	Knowledge Domain	Skills Domain	Responsibility Domain
6-Mid-Level Manager/ Sub Assistant Engineer	Comprehensive actual and theoretical knowledge within a specific work or study area with an awareness of the validity and limits of that knowledge, able to analyse, compare, relate and evaluate.	Specialised and wider range of cognitive and practical skills required to provide leadership in the development of creative solutions to defined problems. Communicate professional issues and solutions to the team and to external partners/users.	Work under broad guidance and self-motivation to execute strategic and operational plan/s. Lead lower-level management. Diagnose and resolve problems within and among work groups.
5-Supervisor	Broad knowledge of the underlying, concepts, principles, and processes in a specific work or study area, able to scrutinize and break information into parts by identifying motives or causes.	Broad range of cognitive and practical skills required to generate solutions to specific problems in one or more work or study areas. Communicate practice-related problems and possible solutions to external partners.	Work under guidance of management and self-direction to resolve specific issues. Lead and take responsibility for the work and actions of group/team members. Bridge between management.
4-Highly Skilled Worker	Broader knowledge of the underlying, concepts, principles, and processes in a specific work or study area, able to solve problems to new situations by comparing and applying acquired knowledge.	A 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. Communicate using technical terminology and IT technology with partners and users as per workplace requirements.	Work under minimal supervision in specific contexts in response to workplace requirements. Resolve technical issues in response to workplace requirements and lead/guide a team/ group.
3-Skilled Worker	Moderately broad knowledge in a specific work or study area, able to perceive ideas and abstract from drawing and design according to workplace requirements.	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. Communicate with his team and limited external partners upholding the values, nature and culture of the workplace	Work or study under supervision with considerable autonomy. Participate in teams and responsible for group coordination.
2-Semi Skilled Worker	Basic understanding of underpinning knowledge in a specific work or study area, able to interpret and apply common occupational terms and instructions.	Skills required to carry out simple tasks, communicate with his team in the workplace presenting and discussing results of his work with required clarity.	Work or study under supervision in a structured context with limited scope of manipulation
1 –Basic Skilled Worker	Elementary understanding of ability to interpret the underpinning knowledge in a specific study area, able to interpret common occupational terms and instructions.	Specific Basic skills required to carry out simple tasks. Interpret occupational terms and present the results of own work within guided work environment/ under supervision.	Work under direct supervision in a structured context with limited range of responsibilities.

List of Abbreviations

CS	Competency Standard
ISC	Industry Skills Council
NSDA	National Skills Development Authority
NSQF	National Skills Qualifications Framework
OSH	Occupational Safety and Health
PPE	Personal Protective Equipment
SCVC	Standards and Curriculum Validation Committee
STP	Skills Training Provider
SOP	Standard Operating Procedure
UoC	Unit of Competency

Approval of Competency Standard

Approved by
22nd Authority Meeting of NSDA Held on 24.11.2022



Md. Saniul Ferdous
Deputy Director (Admin)
National Skills Development Authority
Prime Minister's Office

Deputy Director (Admin)
and

Officer of Secretarial Duties for Authority Meeting
National Skills Development Authority

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**Competency Standards for National Skill Certificate, Level-3 in
Block Batik and Screen Printing in Informal Sector**

Course Structure

SL No	Unit code and Title		UOC Level	Nominal (hours)
Generic Units of Competencies				
1.	GU008L2V1	Work in a team Environment	2	20
Sub Total				20
Occupation Specific Units of Competencies				
2.	OU-IS-BBSP-01-L3-V1	Perform multi-color Batik	3	50
3.	OU-IS-BBSP-02-L3-V1	Make design and screen	3	60
4.	OU-IS-BBSP-03-L3-V1	Perform multi-color Screen Printing	3	50
5.	OU-IS-BBSP-04-L3-V1	Perform emboss print	3	30
6.	OU-IS-BBSP-05-L3-V1	Perform hand paint and spray print	3	60
Sub Total				250
Total Duration				270

Units & Elements at Glance

Generic Competencies

Code	Unit of competency	Elements of competency	Duration (hours)
GU008L2V1	Work in a Team Environment	<ol style="list-style-type: none">1. Define team role and scope2. Identify individual role and responsibility3. Participate in team discussions4. Work as a team member	20
Total hours			20

Sector Specific Competencies

Code	Unit of competency	Elements of competency	Duration (hours)
-	-	-	-
Total hours			-

Occupation specific competencies

Code	Unit of competency	Elements of competency	Duration (hours)
OU-IS-BBSP-01-L3-V1	Perform Multi-color batik	<ol style="list-style-type: none"> 1. Follow OSH practices 2. Prepare for multi-color batik 3. Carryout first waxing 4. Carryout first dyeing 5. Carryout second waxing 6. Carryout second dyeing 7. Carryout finishing and quality checking 8. Clean and maintain tools and workplace 	50
OU-IS-BBSP-02-L3-V1	Make design and screen	<ol style="list-style-type: none"> 1. Create design 2. Make screen 	60
OU-IS-BBSP-03-L3-V1	Perform multi-color Screen Printing	<ol style="list-style-type: none"> 1. Follow OSH practices 2. Prepare for multi-color Screen Printing 3. Carryout multi-color Screen Printing 4. Carryout finishing and quality checking 5. Clean and maintain tools and workplace 	50
OU-IS-BBSP-04-L3-V1	Perform emboss print	<ol style="list-style-type: none"> 1. Follow OSH practices 2. Prepare for emboss print 3. Carryout emboss print 4. Carryout finishing and quality checking 5. Clean and maintain tools and workplace 	30
OU-IS-BBSP-05-L3-V1	Perform hand paint and spray print	<ol style="list-style-type: none"> 1. Follow OSH practices 2. Prepare for hand paint and spray print 3. Carryout hand paint 4. Carryout spray print 5. Carryout finishing and quality checking 6. Clean and maintain tools and workplace 	60
Total Hours			250

Generic Units of Competencies

Unit Code and Title	GU008L2V1: Work in a Team Environment
Unit Descriptor	<p>This unit covers the knowledge, skills and attitudes (KSAs) required in working in a team environment.</p> <p>It includes define team role and scope, identify individual role and responsibility, participate in team discussions and work as a team member.</p>
Nominal Hours	20 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated 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 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 <u>team members</u> 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 4.3 OHS practices are followed
Range of Variables	
Variables	Range (may include but not limited to):
1. Team Members	1.1 Coach/mentor 1.2 Supervisor/Manager 1.3 Peers/Colleagues 1.4 Employee representative
Evidence Guide	
The evidence must be authentic, valid, sufficient, reliable, consistent, recent and meet all requirements of current version of the Unit of Competency	
1. Critical aspects of competency	Assessment required evidence that the candidate: 1.1 demonstrated knowledge in working in a team environment. 1.2 satisfied the requirements mentioned in the

	1.3 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. Required attitude	4.1 Commitment to occupational health and safety 4.2 Sincere and honest to duties 4.3 Promptness in carrying out activities 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect of peers and seniors in workplace 4.8 Communicate with peers and seniors in workplace
5. Resource implications	5.1 Pens 5.2 Telephone 5.3 Computer 5.4 Writing materials 5.5 Online communication
6. Methods of assessment	Competency should be assessed by: 6.1 Written test 6.2 Demonstration 6.3 Oral Questioning
7. Context of assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre 7.2 Assessment should be done by a NSDA certified/nominated assessor

Accreditation Requirements

Training Providers must be accredited by National Skills Development Authority (NSDA), 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 qualification under NSQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.

Occupation Specific Units of Competencies

Unit Code and Title	OU-IS-BBSP-01-L3-V1: Perform multi-color Batik
Unit Descriptor	<p>This unit covers the skills, knowledge and attitude required to perform multi-color batik.</p> <p>It specifically includes following OSH practices, preparing for multi-color batik, carrying out first waxing, carrying out first dyeing, carrying out second waxing, carrying out second dyeing, carrying out finishing and quality checking and cleaning and maintaining tools and workplace.</p>
Nominal Hours	50 Hours
Elements of Competency	<p>Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables</p>
1. Follow OSH practices	<p>1.1 <u>Personal Protective Equipment (PPE)</u> is selected and collected as per requirements</p> <p>1.2 PPE is worn as required</p> <p>1.1 Safe work practices are followed as per workplace standard</p>
2. Prepare for multi-color Batik	<p>2.1 <u>Tools, equipment</u> and <u>materials</u> are selected and collected for multi-color batik</p> <p>2.2 Fabrics are selected for batik</p> <p>2.3 <u>Fabric processing</u> is performed</p> <p>2.4 Design for waxing is selected</p> <p>2.5 <u>Waxing liquid</u> is prepared</p>
3. Carryout first waxing	<p>3.1 Fabric is laid on table and pinned to avoid distortion</p> <p>3.2 Waxing is performed using <u>waxing tools</u> or by free hand as per the design</p> <p>3.3 Waxed fabric is dried as per workplace standard</p>
4. Carryout first dyeing	<p>4.1 <u>Solution for dye bath</u> is prepared to meet color specification</p> <p>4.2 Fabrics are treated with dye bath until achieving desired shade as per fabric and color</p> <p>4.3 Dyed fabrics are dried as per workplace standard</p> <p>4.4 Dyed fabrics are treated with hot water and detergent to remove wax</p> <p>4.5 Dyed fabrics are washed with water</p> <p>4.6 Dyed fabrics are dried as per workplace standard</p>
5. Carryout second waxing	<p>5.1 Fabric is laid on table and pinned to avoid distortion</p> <p>5.2 Waxing is performed using waxing tools or by hand as per the design</p> <p>5.3 Waxed fabric is dried as per workplace standard</p>

6. Carryout second dyeing	6.1 Fabrics are treated with dye bath until achieving desired shade as per fabric and color 6.2 Dyed fabrics are dried as per workplace standard 6.3 Dyed fabrics are treated with hot water and detergent to remove wax 6.4 Dyed fabrics are washed with water 6.5 Dyed fabrics are dried as per workplace standard
7. Carryout finishing and quality checking	7.1 Dried fabrics are ironed as per requirement 7.2 Quality is checked and faults are identified as per client's requirements 7.3 Finished products are folded, packed and stored as per standard procedure
8. Clean and maintain tools and workplace	8.1 Used dyes and wax are disposed off as per workplace standard 8.2 Tools and equipment are cleaned and stored as per workplace standard 8.3 Workplace is cleaned as per workplace standard
Range of Variables	
Variables	Range (may include but not limited to):
1. Personal Protective Equipment (PPE)	1.1 Mask 1.2 Apron 1.3 Hand gloves 1.4 Safety Glass/ Goggles 1.5 Safety shoe/ boots
2. Tools, equipment	2.1 Scissors 2.2 Iron pan 2.3 Sauce pan 2.4 Measuring tape 2.5 Wooden scale 2.6 Pot 2.7 Wooden spoon 2.8 Bucket/ Bowl 2.9 Burner/ Stove 2.10 Iron machine
3. Materials	3.1 Fabrics 3.2 Wax 3.3 Color 3.4 Chemicals 3.5 Chalk
4. Fabric processing	4.1 Washing 4.2 Drying 4.1 Ironing

5. Waxing liquid	5.1 White wax 5.2 Honey wax 5.3 Resin (Rozon)
6. Waxing tool	6.1 Dice for batik 6.2 Tjanting 6.3 Brush 6.4 Wooden frame
7. Solution for dye bath	7.1 Vat dye 7.1.1 Vat color 7.1.2 Hydrous 7.1.3 Caustic Soda 7.2 Prussian dye 7.2.1 Prussian color 7.2.2 Salt 7.2.3 Soda 7.3 Sulphur dye 7.3.1 Sulphur color 7.3.2 Sodium 7.3.3 Dye Fixer 7.4 Nephthol dye 7.4.1 Nephthol AS/ Nephthol BS 7.4.2 Monopole soap 7.4.3 Caustic soda 7.4.4 Alumina sulfat 7.4.5 Sodium nitrate 7.4.6 Sulfuric acid 7.5 Natural or vegetable dye 7.5.1 Vegetable (Indigo, Khoyer, Horitoki, pomegranate (Dalim, Onion peel, Turmeric, Wood powder, Mulberry etc.) 7.5.2 Copper sulfate 7.5.3 Ferrous sulfate 7.5.4 Potassium Dichromate 7.5.5 Caustic soda 7.5.6 Soda 7.5.7 Salt
8. Faults	8.1 Wrong color 8.2 Shade variation 8.3 Design mismatched 8.4 Rejection
Evidence Guide The evidence must be authentic, valid, sufficient, reliable, consistent, recent and meet all requirements of current version of the Unit of Competency	

1. Critical aspects of competency	<p>Assessment required evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 selected and collected PPE 1.2 selected and collected tools equipment and materials 1.3 selected fabric for batik 1.4 performed fabric processing 1.5 performed waxing 1.6 prepared dye bath 1.7 performed dyeing 1.8 carrying out finishing and quality checking
2. Underpinning knowledge	<ul style="list-style-type: none"> 2.1 Personal Protective Equipment 2.2 Tools equipment and materials for batik 2.3 Different types of fabrics 2.4 Fabric processing 2.5 Wax, wax design and waxing 2.6 Fabric dyeing, re-dyeing and related treatment 2.7 Finished garments checking and faults detection 2.8 Workplace cleanliness
3. Underpinning skills	<ul style="list-style-type: none"> 3.1 Selecting and collecting PPE 3.2 Selecting tools equipment and materials 3.3 Processing fabric 3.4 Preparing wax liquid 3.5 Waxing fabrics 3.6 Preparing dye bath 3.7 Dyeing and re-dyeing fabrics 3.8 Performing finishing and quality checking 3.9 Maintaining tools equipment and workplace
4. Required attitude	<ul style="list-style-type: none"> 4.1 Commitment to occupational health and safety 4.2 Sincere and honest to duties 4.3 Promptness in carrying out activities 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect of peers and seniors in workplace 4.8 Communicate with peers and seniors in workplace
5. Resource implications	<ul style="list-style-type: none"> 5.1 Workplace (simulated or actual) 5.2 Personal Protective Equipment (PPE) 5.3 Tools, equipment and materials for batik 5.4 Fabrics for batik 5.5 Fabric processing facility 5.6 Dyes and chemicals for batik 5.7 Chemical measuring tools and equipment
6. Methods of assessment	<p>Competency should be assessed by:</p> <ul style="list-style-type: none"> 6.1 Written test

	6.2	Demonstration
	6.3	Oral Questioning
7. Context of assessment	7.1	Competency assessment must be done in NSDA accredited assessment centre
	7.2	Assessment should be done by a NSDA certified/nominated assessor
Accreditation Requirements Training Providers must be accredited by National Skills Development Authority (NSDA), 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 qualification under NSQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.		

Unit Code and Title	OU-IS-BBSP-02-L3-V1: Make design and screen
Unit Descriptor	This unit covers the skills, knowledge and attitude required to make design and screen. It specifically includes creating design and making screen.
Nominal Hours	60 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables
1. Create design	1.1 Trends are searched in different <u>design sources</u> 1.2 Design is selected 1.3 Design is transferred to digital format 1.4 Colors are selected and finalized for screen preparation in case of multi-colors 1.5 Color wise design is traced on tracing paper
2. Make Screen	2.1 <u>Tools, equipment</u> and <u>materials</u> are selected and collected for making screen 2.2 <u>Frame</u> is prepared as per size and measurement of design 2.3 Mesh fabric is set on the frame 2.4 <u>Exposed emulsion chemicals</u> are applied on screen and dried in the dark room 2.5 Designed tracing paper and frame is placed together on the light box 2.6 Light reflection is carried out on screen as per SOP 2.7 Screen is washed by water with high pressure until the design is visible. 2.8 Screen is dried as per workplace standard. 2.9 Design is checked as per SOP 2.10 Faults are marked and rectified if found
Range of Variables	
Variables	Range (may include but not limited to):
1. Design source	1.1 Internet 1.2 Photograph 1.3 Market survey 1.4 Client's Preference
2. Tools, equipment	2.1 Light box with accessories 2.2 Wooden/ steel frame 2.3 Pot and spoon 2.4 Plastic scale 2.5 Bucket 2.6 Hand brush

3. Materials	3.1 Mesh fabrics 3.2 Exposed emulsion chemicals 3.3 Scorch tape 3.4 Boot pin 3.5 Glue
4. Frame	4.1 Wooden 4.2 Steel
5. Exposed emulsion chemicals	5.1 Photocure TXR 5.2 Autosol screen emulsion 5.3 Hardener
Evidence Guide The evidence must be authentic, valid, sufficient, reliable, consistent, recent and meet all requirements of current version of the Unit of Competency	
1. Critical aspects of competency	Assessment required evidence that the candidate: 1.1 searched design trends 1.2 selected and finalized colors for screen preparation 1.3 traced color wise design 1.4 selected and collected tools equipment and materials 1.5 prepared frame 1.6 applied exposed emulsion chemicals 1.7 prepared error free screen
2. Underpinning knowledge	2.1 Design 2.2 Trends 2.3 Colors and color selection 2.4 Tools equipment and materials for screen 2.5 Screen development procedures 2.6 Screen checking and faults rectification
3. Underpinning skills	3.1 Selecting designs for screen 3.2 Selecting colors for screen 3.3 Selecting and collecting tools equipment and materials 3.4 Preparing frame 3.5 Applying exposed emulsion chemicals 3.6 Preparing screen 3.7 Checking screen and rectifying faults
4. Required attitude	4.1 Commitment to occupational health and safety 4.2 Sincere and honest to duties 4.3 Promptness in carrying out activities 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect of peers and seniors in workplace 4.8 Communicate with peers and seniors in workplace

5. Resource implications	5.1 Workplace (simulated or actual) 5.2 Tools, equipment for making screen 5.3 Mesh fabric 5.4 Wood for frame 5.5 Exposed emulsion chemicals 5.6 Tracing paper 5.7 Light box
6. Methods of assessment	Competency should be assessed by: 6.1 Written test 6.2 Demonstration 6.3 Oral Questioning
7. Context of assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre 7.2 Assessment should be done by a NSDA certified/nominated assessor
Accreditation Requirements Training Providers must be accredited by National Skills Development Authority (NSDA), 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 qualification under NSQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.	

Unit Code and Title	OU-IS-BBSP-03-L3-V1: Perform multi-color Screen Printing
Unit Descriptor	This unit covers the skills, knowledge and attitude required to perform multi-color Screen Printing. It specifically includes following OSH practices, preparing for multi-color Screen Printing, carrying out multicolor Screen Printing, carrying out finishing and quality checking and cleaning and maintaining tools and workplace.
Nominal Hours	50 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables
1. Follow OSH practices	1.1 <u>Personal Protective Equipment (PPE)</u> is selected and collected as per requirements 1.2 PPE is worn as required 1.3 Safe work practices are followed as per workplace standard
2. Prepare for multi-color Screen Printing	2.1 <u>Tools, equipment</u> and <u>materials</u> are selected and collected for Screen Printing 2.2 <u>Fabric processing</u> is performed in case of printing on fabric for starch removal 2.3 Screen frames are selected and collected as per SOP 2.4 <u>Working Table</u> is prepared as per workplace standard 2.5 Steel bar of the working table is adjusted as per screen placement 2.6 Modi gum is used to fix the fabric with the table 2.7 <u>Print paste</u> is prepared for Screen Printing if not using ready paste
3. Carryout multi-color Screen Printing	3.1 Screen frames are set and prepared in a serial for multi-color Screen Printing 3.2 Screen frames and print paste are checked and tested on wastage fabrics 3.3 Fabric is laid on table 3.4 First color is applied using screen as per design specification and wait until it dries. 3.5 Second color is applied using screen as per design specification and wait until it dries. 3.6 Other colors are applied using screen as per design specification as per previous procedures 3.7 Printed fabric is <u>dried</u> properly as per standard requirements
4. Carryout finishing and quality checking	4.1 Quality is checked and <u>faults</u> are identified as per client's requirements

	4.2 Faulty goods are separated and disposed off as per workplace standard 4.3 Printed products are prepared for delivery in case of cut panels. 4.4 Finished products are ironed, folded, packed and stored in case of complete goods as per standard procedure
5. Clean and maintain tools and workplace	5.1 Excess print pastes are stored separately in air tight container for further use 5.2 <u>Work aids</u> are washed by water with high pressure spray 5.3 Work aids are dried and stored as per workplace standard 5.4 Working table and workplace is cleaned as per workplace standard
Range of Variables	
Variables	Range (may include but not limited to):
1. Personal Protective Equipment (PPE)	1.1 Mask 1.2 Hand gloves 1.3 Apron
2. Tools, equipment	2.1 Working table 2.2 Screen frame 2.3 Squeezer 2.4 Color pot 2.5 Pot and spoon 2.6 Bucket 2.7 Wooden scale 2.8 Measuring tape 2.9 Scissors 2.10 Dryer 2.11 Iron machine 2.12 Hemmer 2.13 Adjustable wrench 2.14 Players
3 Materials	3.1 Fabrics 3.2 Color 3.3 Chemicals 3.4 Scorch tape 3.5 Modi gum 3.6 Chalk powder 3.7 Chalk
4 Fabric processing	4.1 Washing 4.2 Drying 4.3 Ironing

5 Working table	<p>The specification of the table should be</p> <p>5.1 Measurement</p> <p>5.1.1 Length: 5 feet-16 feet</p> <p>5.1.2 Width: 3feet - 5 feet</p> <p>5.1.3 Height: 3 feet 4 feet</p>
6 Print paste	<p>6.1 Newtex</p> <p>6.1.1 Water</p> <p>6.1.2 PG gum</p> <p>6.1.3 Apiton</p> <p>6.1.4 Binder</p> <p>6.1.5 NK fixer</p> <p>6.1.6 Oxale (Oxalic Acid)</p> <p>6.2 White paste</p> <p>6.2.1 Water</p> <p>6.2.2 TT powder</p> <p>6.2.3 Apiton</p> <p>6.2.4 Binder</p> <p>6.2.5 NK fixer</p> <p>6.2.6 Oxale (Oxalic Acid)</p> <p>6.3 Golden paste</p> <p>6.3.1 F-53</p> <p>6.3.2 Golden yellow color</p> <p>6.3.3 Golden Afsan</p> <p>6.4 Silver paste</p> <p>6.4.1 F-53</p> <p>6.4.2 Black color</p> <p>6.4.3 Silver Afsan</p>
7 Dried	<p>7.1 Dryer</p> <p>7.2 Sunlight</p>
8 Faults	<p>8.1 Hazy print</p> <p>8.2 Stain</p> <p>8.3 Color drops</p> <p>8.4 Wrong color used</p> <p>8.5 Color bleeding</p> <p>8.6 Unmatched repeat</p>
9 Work aids	<p>9.1 Screen frame</p> <p>9.2 Squeezer</p> <p>9.3 Color pot</p> <p>9.4 Pot and spoon</p> <p>9.5 Bucket</p>
Evidence Guide	

The evidence must be authentic, valid, sufficient, reliable, consistent, recent and meet all requirements of current version of the Unit of Competency	
1. Critical aspects of competency	<p>Assessment required evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 followed OSH practices 1.2 selected and collected tools equipment and materials 1.3 prepared working table 1.4 performed fabric processing 1.5 prepared print pastes 1.6 performed multi-color Screen Printing 1.7 performed finishing and quality checking 1.8 identified faults
2. Underpinning knowledge	<ul style="list-style-type: none"> 2.1 Personal Protective Equipment (PPE) 2.2 Tools and equipment for block print 2.3 Materials selection 2.4 Table preparation 2.5 Fabric processing 2.6 Print paste preparation 2.7 Screen Printing 2.8 Finishing process 2.9 Quality checking of finished goods 2.10 Maintenance of tools and equipment for Screen Printing
3. Underpinning skills	<ul style="list-style-type: none"> 3.1 Selecting and collecting PPE 3.2 Selecting and collecting tools equipment and materials 3.3 Preparing working table 3.4 Selecting fabrics 3.5 Performing fabric processing 3.6 Preparing print paste 3.7 Performing single color Screen Printing 3.8 Performing finishing and quality checking 3.9 Identifying and rectifying faults 3.10 Maintaining tools equipment and work place
4 Required attitude	<ul style="list-style-type: none"> 4.1 Commitment to occupational health and safety 4.2 Sincere and honest to duties 4.3 Promptness in carrying out activities 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect of peers and seniors in workplace 4.8 Communicate with peers and seniors in workplace Tidiness and timeliness
5 Resource implications	<ul style="list-style-type: none"> 5.1 Workplace (simulated or actual) 5.2 Personal Protective Equipment (PPE) 5.3 Tools, equipment and machinery for Screen Printing

	5.4 Fabrics for Screen Printing 5.5 Fabric processing facility 5.6 Working table 5.7 Dyes and chemicals for Screen Printing 5.8 Chemical measuring tools and equipment
6 Methods of assessment	Competency should be assessed by: 6.1 Written test 6.2 Demonstration 6.3 Oral Questioning
7. Context of assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre 7.2 Assessment should be done by a NSDA certified/nominated assessor
Accreditation Requirements Training Providers must be accredited by National Skills Development Authority (NSDA), 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 qualification under NSQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.	

Unit Code and Title	OU-IS-BBSP-04-L3-V1: Perform Emboss print
Unit Descriptor	<p>This unit covers the skills, knowledge and attitude required to perform emboss print.</p> <p>It specifically includes following OSH practices, preparing for emboss print, carrying out emboss print, carrying out finishing and quality checking and cleaning and maintaining tools and workplace.</p>
Nominal Hours	30 Hours
Elements of Competency	<p>Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables</p>
1. Follow OSH practices	<p>1.1 <u>Personal Protective Equipment (PPE)</u> is selected and collected as per requirements</p> <p>1.2 PPE is worn as required</p> <p>1.3 Safe work practices are followed as per workplace standard</p>
2. Prepare for emboss print	<p>2.1 <u>Tools, equipment</u> and <u>materials</u> are selected and collected for emboss print</p> <p>2.2 <u>Fabric processing</u> is performed in case of printing on fabric for starch removal</p> <p>2.3 <u>Printing methods</u> are selected as per design</p> <p>2.4 <u>Working Table</u> is prepared as per workplace standard</p> <p>2.5 Modi gum is used to fix the fabric with the table</p> <p>2.6 <u>Print paste</u> is prepared for emboss print if not using ready paste</p>
3. Carryout emboss print	<p>3.1 Print pastes are checked and tested on wastage fabrics</p> <p>3.2 Fabric is laid on table</p> <p>3.3 <u>Printing procedures</u> are performed as per design specification</p> <p>3.4 Printed fabric is <u>dried</u> as per standard requirements</p> <p>3.5 Printed fabrics are ironed in back side to make emboss as per design specification</p>
4. Carryout finishing and quality checking	<p>4.1 Quality is checked and <u>faults</u> are identified as per client's requirements</p> <p>4.2 Faulty goods are separated and disposed off as per workplace standard</p> <p>4.3 Printed products are prepared for delivery in case of cut panels.</p> <p>4.4 Finished products are ironed, folded, packed and stored in case of complete goods as per standard procedure</p>
5. Clean and maintain tools and workplace	<p>5.1 Excess print pastes are stored separately in air tight container for further use</p> <p>5.2 <u>Work aids</u> are washed by water with high pressure spray</p>

	5.3 Work aids are dried and stored as per workplace standard 5.4 Working table and workplace is cleaned as per workplace standard
Range of Variables	
Variables	Range (may include but not limited to):
1. Personal Protective Equipment (PPE)	1.1 Mask 1.2 Hand gloves 1.3 Apron
2. Tools, equipment	2.1 Working table 2.2 Screen frame 2.3 Wooden block 2.4 Hand brush 2.5 Squeezer 2.6 Color pot 2.7 Pot and spoon 2.8 Bucket 2.9 Wooden scale 2.10 Measuring tape 2.11 Scissors 2.12 Dryer 2.13 Iron machine 2.14 Hemmer 2.15 Adjustable wrench 2.16 Players
3 Materials	3.1 Fabrics 3.2 Color 3.3 Chemicals 3.4 Scorch tape 3.5 Chalk 3.6 Chalk powder 3.7 Pencils 3.8 Sharpener 3.9 Eraser
4 Fabric processing	4.1 Washing 4.2 Drying 4.3 Ironing
5 Printing methods	5.1 Using Screen 5.2 Using Block 5.3 Using hand brush
6 Working table	The specification of the table should be 6.1 Measurement

	6.1.1 Length: 5 feet-16 feet 6.1.2 Width: 3 feet - 5 feet 6.1.3 Height: 3 feet - 4 feet
7 Print paste	7.1 Emboss paste 7.2 Binder 7.3 NK fixer 7.4 Dye stuff (Different color)
8 Printing procedures	8.1 Using Screen 8.1.1 Place screen 8.1.2 Put print paste on screen 8.1.3 Move rubber squeezer and lapped it on the screen 8.1.4 Remove the screen from fabric 8.2 Using Block 8.2.1 Put print paste in color tray 8.2.2 Put block on color pad 8.2.3 Print on fabric 8.3 Using Hand brush 8.3.1 Put print paste in color palate 8.3.2 Take color by brush 8.3.3 Draw design
9 Dried	9.1 Dryer 9.2 Sunlight
10 Faults	10.1 Hazy print 10.2 Stain 10.3 Color drops 10.4 Wrong color used 10.5 Color bleeding 10.6 Unmatched repeat 10.7 Low puff 10.8 Irregular puff
11 Work aids	11.1 Screen frame 11.2 Wooden block 11.3 Hand brush 11.4 Squeezer 11.5 Color pot 11.6 Pot and spoon 11.7 Bucket 11.8 Color palate
Evidence Guide The evidence must be authentic, valid, sufficient, reliable, consistent, recent and meet all requirements of current version of the Unit of Competency	

1. Critical aspects of competency	<p>Assessment required evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 followed OSH practices 1.2 selected and collected tools equipment and materials 1.3 prepared working table 1.4 performed fabric processing 1.5 prepared print paste 1.6 performed emboss print 1.7 performed finishing and quality checking 1.8 identified faults
2. Underpinning knowledge	<ul style="list-style-type: none"> 2.1 Personal Protective Equipment (PPE) 2.2 Tools and equipment for emboss print 2.3 Materials selection 2.4 Table preparation 2.5 Fabric processing 2.6 Print paste preparation 2.7 Emboss print 2.8 Finishing process 2.9 Quality checking of finished goods 2.10 Maintenance of tools and equipment for emboss print
3 Underpinning skills	<ul style="list-style-type: none"> 3.1 Selecting and collecting PPE 3.2 Selecting and collecting tools equipment and materials 3.3 Preparing working table 3.4 Selecting fabrics 3.5 Performing fabric processing 3.6 Preparing print paste 3.7 Performing emboss print 3.8 Performing finishing and quality checking 3.9 Identifying faults 3.10 Maintaining tools equipment and work place
4 Required attitude	<ul style="list-style-type: none"> 4.1 Commitment to occupational health and safety 4.2 Sincere and honest to duties 4.3 Promptness in carrying out activities 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect of peers and seniors in workplace 4.8 Communicate with peers and seniors in workplace
5 Resource implications	<ul style="list-style-type: none"> 5.1 Workplace (simulated or actual) 5.2 Personal Protective Equipment (PPE) 5.3 Tools, equipment and machinery for Screen Printing 5.4 Fabrics for Screen Printing 5.5 Fabric processing facility 5.6 Working table

	5.7 Dyes and chemicals for Screen Printing 5.8 Chemical measuring tools and equipment
6 Methods of assessment	Competency should be assessed by: 6.1 Written test 6.2 Demonstration 6.3 Oral Questioning
7. Context of assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre 7.2 Assessment should be done by a NSDA certified/nominated assessor
<p>Accreditation Requirements</p> <p>Training Providers must be accredited by National Skills Development Authority (NSDA), 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 qualification under NSQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.</p>	

Unit Code and Title	OU-IS-BBSP-05-L3-V1: Perform hand paint and spray print
Unit Descriptor	This unit covers the skills, knowledge and attitude required to perform hand paint and spray print. It specifically includes following OSH practices, preparing for hand paint and spray print, carrying out hand paint, carrying out spray print, carryout finishing and quality checking and cleaning and maintaining tools and workplace.
Nominal Hours	60 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables
1. Follow OSH practices	1.1 <u>Personal Protective Equipment (PPE)</u> is selected and collected as per requirements 1.2 PPE is worn as required 1.3 Safe work practices are followed as per workplace standard
2. Prepare for hand paint and spray print	2.1 <u>Tools, machine</u> and <u>materials</u> are selected and collected for hand paint or spray print 2.2 <u>Fabric processing</u> is performed in case of starch in the fabric 2.3 <u>Design</u> for hand paint or spray is selected 2.4 Design is <u>traced</u> on fabric in case of hand paint if necessary 2.5 Paper board pattern is prepared for spray print as per design requirements 2.6 Frame or working Table is prepared as per workplace standard 2.7 <u>Print paste</u> is prepared for hand paint or spray print
3. Carryout hand paint	3.1 Fabric is set on frame or table 3.2 Color is checked and tested on wastage fabric with <u>hand brush</u> 3.3 Hand paint is performed on selected fabrics as per design specification 3.4 Painted fabric is dried as per standard requirements
4. Carryout spray print	4.1 Fabric is set on frame or table 4.2 Liquid colors are inserted in the color chamber of the spray gun or bottle 4.3 Color is checked and tested on wastage fabric by spray 4.4 Spray print is performed on selected fabrics as per design specification 4.5 Painted fabric is dried as per standard requirements
5. Carryout finishing and quality checking	5.1 Dried fabrics are ironed as per requirement 5.2 nQuality is checked and <u>faults</u> are identified as per client's requirements

	5.3 Finished products are folded, packed and stored as per standard procedure
6. Clean and maintain tools and workplace	6.1 Excess print pastes are stored separately in air tight container for further use 6.2 Work aids are washed with water or cleaned as per workplace standard. 6.3 Work aids are dried and stored as per workplace standard 6.4 Working table and workplace is cleaned as per workplace standard
Range of Variables	
Variables	Range (may include but not limited to):
1. Personal Protective Equipment (PPE)	1.1 Mask 1.2 Hand gloves 1.3 Apron
2. Tools, machine	2.1 Working table 2.2 Wooden frame 2.3 Color pot 2.4 Color palate 2.5 Color mixing brush 2.6 Color brush 2.7 Pot and spoon 2.8 Wooden scale 2.9 Measuring tape 2.10 Scissors 2.11 Spray gun 2.12 Iron machine
3. Materials	3.1 Fabrics 3.2 Color 3.3 Chemicals 3.4 Chalk 3.5 Pencil 3.6 Eraser 3.7 Sharpener 3.8 Carbon paper 3.9 Tracing paper
4 Fabric processing	4.1 Washing 4.2 Drying 4.3 Ironing
5 Design	5.1 Motif (Folk, Geometric, Modern) 5.2 Occasional theme 5.3 Floral

	5.4 Nature 5.5 Letter
6 Traced	6.1 Free hand sketch 6.2 Carbon paper 6.3 Perforated tracing sheet
7 Print paste	7.1 Newtex <ul style="list-style-type: none"> 7.1.1 Water 7.1.2 PG gum 7.1.3 Apiton 7.1.4 Binder 7.1.5 NK fixer 7.1.6 Oxale (Oxalic Acid) 7.2 White paste <ul style="list-style-type: none"> 7.2.1 Water 7.2.2 TT powder 7.2.3 Apiton 7.2.4 Binder 7.2.5 NK fixer 7.2.6 Oxale (Oxalic Acid) 7.3 Golden paste <ul style="list-style-type: none"> 7.3.1 White paste 7.3.2 Golden yellow color 7.3.3 Golden Afsan 7.4 Silver paste <ul style="list-style-type: none"> 7.4.1 White paste 7.4.2 Black color 7.4.3 Silver Afsan 7.5 Afsan <ul style="list-style-type: none"> 7.5.1 F-53 7.5.2 Golden Afsan/ Silver Afsan
8 Hand brush	8.1 0 size 8.2 2 size 8.3 4 size 8.4 6 size 8.5 8 size 8.6 10 size 8.7 12 size 8.8 Flat 10 size 8.9 Flat 12 size
9 Faults	9.1 Color drops 9.2 Wrong color used

	9.3 Color bleeding 9.4 Mismatched design
10 Work aids	10.1 Color brush 10.2 Tracing sheets 10.3 Paper pattern 10.4 Spray gun 10.5 Color pot 10.6 Pot and spoon
Evidence Guide The evidence must be authentic, valid, sufficient, reliable, consistent, recent and meet all requirements of current version of the Unit of Competency	
1. Critical aspects of competency	Assessment required evidence that the candidate: 1.1 followed OSH practices 1.2 selected and collected tools equipment and materials 1.3 performed fabric processing 1.4 selected design for hand paint and spray print 1.5 traced design on fabric 1.6 prepared frame or working table 1.7 prepared print paste 1.8 performed hand paint and spray print 1.9 performed finishing and quality checking 1.10 identified and rectified faults
2. Underpinning knowledge	2.1 Personal Protective Equipment (PPE) 2.2 Tools and equipment for hand paint and spray print 2.3 Materials selection 2.4 Frame or table preparation 2.5 Fabric processing 2.6 Print paste preparation 2.7 Hand paint 2.8 Spray print 2.9 Finishing process 2.10 Quality checking of finished goods 2.11 Maintenance of tools and equipment for hand paint and spray print
3. Underpinning skills	3.1 Selecting and collecting PPE 3.2 Selecting and collecting tools equipment and materials 3.3 Preparing frame or working table 3.4 Selecting fabrics 3.5 Performing fabric processing 3.6 Preparing print paste 3.7 Performing hand paint and spray print 3.8 Performing finishing and quality checking 3.9 Identifying and rectifying faults

	3.10 Maintaining tools equipment and work place
4. Required attitude	4.1 Commitment to occupational health and safety 4.2 Sincere and honest to duties 4.3 Promptness in carrying out activities 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect of peers and seniors in workplace 4.8 Communicate with peers and seniors in workplace
5. Resource implications	5.1 Workplace (simulated or actual) 5.2 Personal Protective Equipment (PPE) 5.3 Tools, equipment and machinery for hand paint and spray print 5.4 Fabrics for hand paint or spray print 5.5 Fabric processing facility 5.6 Frame or working table 5.7 Dyes and chemicals for hand paint and spray print 5.8 Chemical measuring tools and equipment
6 Methods of assessment	Competency should be assessed by: 6.1 Written test 6.2 Demonstration 6.3 Oral Questioning
7. Context of assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre 7.2 Assessment should be done by a NSDA certified/nominated assessor
Accreditation Requirements Training Providers must be accredited by National Skills Development Authority (NSDA), 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 qualification under NSQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.	

Development of Competency Standard

The Competency Standards for National Skills Certificate in Block Batik and Screen Printing Occupation, Level- 3 is developed by NSDA 23-27 October 2022.

List of Members

Sl No	Name and Address	Position in the committee	Signature
1.	Alif Rudaba, Member (Planning and Skills Standard) Joint Secretary, National Skills Development Authority (NSDA)	Chairperson	
2.	Md. Abdul Aziz Munshi Informal Sector Specialist, ISISC MezbahUddin Plaza, Mouchak, Dhaka Cell: +880 1817022909 Email: isiscbd2015@gmail.com or aziz.munshi@gmail.com	Member	
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4.	MS. Tasmina Mahmud Ruby Proprietor Taha Handicrafts, Flat: B-5, House: 10-D/5, Block: F, Mohammadpur, Dhaka Cell: +880 1916167581, +880 1713506003 Email: tahahandicrafts40@gmail.com	Member	
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Validation of Competency Standard

The Competency Standards for National Skills Certificate in Block Batik and Screen Printing, Level- 3 is validated by NSDA 9th November 2022.

List of Members

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