



COMPETENCY STANDARD FOR BLOCK BATIK AND SCREEN PRINTING

Level: 2

(Informal Sector)

Competency Standard Code: CS-IS-BBSP-L2-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 & 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-2 in
Block Batik and Screen Printing in Informal Sector**

Level Descriptors of NSQF (BNQF 1-6)

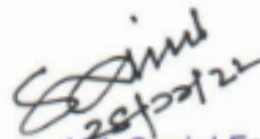
Level & Job classification	Knowledge Domain	Skills Domain	Responsibility Domain
6-Mid-Level Manager/ Sub Assistant Engineer	Comprehensive actual and theoretical knowledge within a specific work or study area with an awareness of the validity and limits of that knowledge, able to analyse, compare, relate 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
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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-2 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.	GC002L2V1	Apply Occupational Safety and Health (OSH) Procedure in the Workplace	2 15
2.	GU013L2V1	Practice Housekeeping Procedure	2 10
3.	GU019L1V1	Deal with Clients/ Customers	1 10
Sub Total			35
Sector Specific Units of Competencies			
4.	SUCS001L2V1	Work in the Informal Sector	2 20
Sub Total			20
Occupation Specific Units of Competencies			
5.	OU-IS-BBSP-01-L2-V1	Interpret Block Batik and Screen Printing	2 40
6.	OU-IS-BBSP-02-L2-V1	Identify and Prepare raw materials	2 60
7.	OU-IS-BBSP-03-L2-V1	Carryout Surface Ornamentation by Block Print	2 60
8.	OU-IS-BBSP-04-L2-V1	Perform Tie dye	2 50
9.	OU-IS-BBSP-05-L2-V1	Perform Single color Batik	2 50
10.	OU-IS-BBSP-06-L2-V1	Perform Single color Screen Printing	2 45
Sub Total			305
Total Duration			360

Units & Elements at Glance

Generic Competencies

Code	Unit of competency	Elements of competency	Duration (hours)
GC002L2V1	Apply Occupational Safety and Health (OSH) procedure In the Workplace	<ol style="list-style-type: none"> 1. Identify OSH policies and procedures 2. Follow OSH procedure 3. Report hazards and risks 4. Respond to emergencies 5. Maintain personal well-being 	15
GU013L2V1	Practice Housekeeping Procedure	<ol style="list-style-type: none"> 1. Sort and remove unnecessary items 2. Arrange items 3. Maintain work area, tools and equipment 4. Follow standardized work process and procedure 5. Perform work spontaneously 	10
GU019L1V1	Deal with Clients / Customers	<ol style="list-style-type: none"> 1. Response customer with due respect 2. Perform customer service 3. Ensure customer satisfaction 	10
Total hours			35

Sector specific competencies

Code	Unit of competency	Elements of competency	Duration (hours)
SUCS001L2V1	Work in the Informal Sector	<ol style="list-style-type: none">1. Describe the organizational structure within the sector2. Identify processes and procedures3. Identify workplace requirements4. Organize own workload	20
Total hours			20

Occupation specific competencies

Code	Unit of competency	Elements of competency	Duration (hours)
OU-IS-BBSP-01-L2-V1	Interpret Block Batik and Screen Printing	<ol style="list-style-type: none"> 1. Define Block Batik and Screen Printing 2. Recognize the use of Block, Batik and Screen Printing 3. Identify tools equipment and machinery 	40
OU-IS-BBSP-02-L2-V1	Identify and prepare raw materials	<ol style="list-style-type: none"> 1. Select fabrics 2. Identify colors 3. Estimate chemicals 	50
OU-IS-BBSP-03-L2-V1	Carryout surface ornamentation by Block Print	<ol style="list-style-type: none"> 1. Follow OSH practices 2. Prepare for Block print 3. Perform single color Block print 4. Perform multi-color block print 5. Perform finishing and quality checking 6. Clean and maintain the tools and workplace 	60
OU-IS-BBSP-04-L2-V1	Perform Tie dye	<ol style="list-style-type: none"> 1. Follow OSH practices 2. Prepare for Tie dye 3. Perform Tying 4. Perform dyeing 5. Perform finishing and quality checking 6. Clean and maintain the tools and workplace 	60
OU-IS-BBSP-05-L2-V1	Perform single color Batik	<ol style="list-style-type: none"> 1. Follow OSH practices 2. Prepare for single color Batik 3. Carryout waxing 4. Carryout single color Batik 5. Carryout finishing and quality checking 6. Clean and maintain tools and workplace 	50
OU-IS-BBSP-06-L2-V1	Perform single color Screen Printing	<ol style="list-style-type: none"> 1. Follow OSH practices 2. Prepare for single color Screen Printing 3. Carryout single color Screen Printing 4. Carryout finishing and quality checking 5. Clean and maintain tools and workplace 	45
Total Hours			305

Generic Units of Competencies

Unit Code and Title	GC002L2V1: Apply Occupational Safety and Health (OSH) Procedure in the Workplace
Unit Descriptor	This unit covers the knowledge, skills and attitudes (KSA) required in applying occupational safety and health (OSH) procedures in the workplace. It specifically includes identifying OHS policies and procedures, following OSH procedure, reporting to emergencies, and maintaining personal well-being.
Nominal Hours	15 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables
1. Identify OSH policies and procedures.	1.1. <u>OHS policies</u> and <u>safe operating procedures</u> are accessed and stated. 1.2. <u>Safety signs and symbols</u> are identified and followed. 1.3. Emergency response, evacuation procedures and other contingency measures are determined according to workplace requirements.
2. Follow OSH procedure	2.1 <u>Personal protective equipment (PPE)</u> is selected and collected as required. 2.2 Personal protective equipment (PPE) is correctly used in accordance with organization OHS procedures and practices. 2.3 A clear and tidy workplace is maintained as per workplace standard. 2.4 PPE is maintained to keep them operational and compliant with OHS regulations.
3. Report hazards and risks.	3.1 <u>Hazards</u> and risks are identified, assessed and controlled. 3.2 Incidents arising from hazards and risks are reported to designated authority.
4. Respond to emergencies	4.1 Alarms and warning devices are responded. 4.2 Workplace <u>emergency procedures</u> are followed. 4.3 <u>Contingency measures</u> during workplace accidents, fire and other emergencies are recognized and followed in accordance with organization procedures. 4.4 First aid procedures is applied during emergency situations.
5. Maintain personal well-being	5.1 OHS policies and procedures are adhered to. 5.2 OHS awareness programs are participated in as per workplace guidelines and procedures. 5.3 Corrective actions are implemented to correct unsafe condition in the workplace. 5.4 <u>“Fit to work” records</u> are updated and maintained according to workplace requirements.

Range of Variables	
Variables	Range (may include but not limited to):
1. OHS Policies	1.1. Bangladesh standards for OHS 1.2. Fire Safety Rules and Regulations 1.3. Code of Practice 1.4. 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 Face mask 4.5 Overalls 4.6 Goggles and safety glasses 4.7 Sun block 4.8 Chemical/Gas detectors
5. Hazards	5.1 Chemical hazards 5.2 Biological hazards 5.3 Physical Hazards 5.4 Mechanical and Electrical Hazard 5.5 Mental hazard 5.6 Ergonomic hazard
6. Emergency Procedures	6.1 Fire fighting 6.2 Earthquake 6.3 Medical and first aid 6.4 Eevacuation
7. Contingency measures	7.1 Evacuation 7.2 Isolation 7.3 Decontamination
8. “Fit to Work” records	8.1 Medical Certificate every year 8.2 Accident reports, if any 8.3 Eye vision certificate
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 stated OHS policies and safe operating procedures

	<ul style="list-style-type: none"> 1.2 followed safety signs and symbols 1.3 used personal protective equipment (PPE) 1.4 maintained workplace clear and tidy 1.5 assessed and Controlled hazards 1.6 followed emergency procedures 1.7 followed contingency measures 1.8 implemented corrective actions
2. Underpinning knowledge	<ul style="list-style-type: none"> 2.1 Define OHS 2.2 OHS Workplace Policies and Procedures 2.3 Work Safety Procedures 2.4 Emergency Procedures 2.5 Hazard control procedure 2.6 Different types of Hazards 2.7 PPE and uses 2.8 Personal Hygiene Practices 2.9 OHS Awareness
3. Underpinning skills	<ul style="list-style-type: none"> 3.1 Accessing OHS policies 3.2 Handling of PPE 3.3 Handling cleaning tools and equipment 3.4 Writing report 3.5 Responding to emergency procedures
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 5.2 Equipment and outfits appropriate in applying safety measures 5.3 Tools, materials and documentation required 5.4 OHS Policies and Procedures
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 6.4 Portfolio
7. Context of assessment	<ul style="list-style-type: none"> 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	GU013L2V1: Practice Housekeeping Procedure
Unit Descriptor	<p>This unit covers the knowledge, skills and attitude required to Practice housekeeping procedure.</p> <p>It specifically includes sorting and removing unnecessary items, arranging items, maintaining work area, tools and equipment, following standardized work process and procedure and performing work spontaneously.</p>
Nominal Hours	10 Hours
Elements of Competency	Performance Criteria <u>Bold underlined</u> terms are elaborated in the Range of Variables
1. Sort and remove unnecessary items	<p>1.1 Reusable, recyclable materials are sorted in accordance with company/office procedures</p> <p>1.2 <u>Unnecessary items</u> are removed and disposed of in accordance with company or office procedures</p>
2. Arrange items	<p>2.1 Items are arranged in accordance with company/office housekeeping procedures</p> <p>2.2 Work area is arranged according to job requirements</p> <p>2.3 Activities are prioritized based on instructions.</p> <p>2.4 Items are provided with clear and visible <u>identification marks</u> based on procedure</p> <p>2.5 Safety equipment and evacuation passages are kept clear and accessible based on instructions</p>
3. Maintain work area, tools and equipment	<p>3.1 Cleanliness and orderliness of work area is maintained in accordance with company/office procedures</p> <p>3.2 Tools and equipment are cleaned in accordance with manufacturer's instructions/manual</p> <p>3.3 <u>Minor repairs</u> are performed on tools and equipment in accordance with manufacturer's instruction/manual</p> <p>3.4 Defective tools and equipment are reported to immediate supervisor</p>
4. Follow standardized work process and procedure	<p>4.1 Materials for common use are maintained in designated area based on procedures</p> <p>4.2 Work is performed according to standard work procedures. Abnormal incidents are reported to immediate supervisor</p>
5. Perform work spontaneously	<p>5.1 Work is performed as per instruction</p> <p>5.2 Company and office <u>decorum</u> are followed and complied with</p> <p>5.3 Work is performed in accordance with OSH requirements</p>
Range of Variables	

Variable	Range (may include but not limited to):
1. Unnecessary items	1.1 Non-recyclable materials 1.2 Pictures, posters and other materials not related to work activity 1.3 Unserviceable tools and equipment 1.4 Waste materials
2. Identification marks	2.1 Color coding 2.2 Labels 2.3 Tags
3. Minor repairs	3.1 Application of lubricants 3.2 Replacement of parts 3.3 Sharpening of tools 3.4 Tightening of nuts, bolts and screws
4. Decorum	4.1 Behavior 4.2 Company/office rules and regulations 4.3 Company/office uniform
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	1.1 Sorted and removes unnecessary items 1.2 Arranged items 1.3 Maintained work area, tools and equipment 1.4 Followed standardized work process and procedures 1.5 Performed work spontaneously
2. Underpinning knowledge	2.1 Environmental requirements relative to work safety 2.2 Principles of 5S 2.3 Reading skills required to interpret instructions 2.4 Work process and procedures 2.5 Work-related documentation requirements
3. Underpinning skills	3.1 Arranging items 3.2 Maintaining work area, tools and equipment 3.3 Following standardizing work process
4. Underpinning attitude	a. Commitment to occupational health and safety b. Promptness in carrying out activities c. Sincere and honest to duties d. Environmental concerns e. Eagerness to learn f. Tidiness and timeliness g. Respect for rights of peers and seniors in workplace h. Communication with peers and seniors in workplace

5. Resource implications	<p>The following resources must be provided:</p> <p>5.1 Work place Procedure</p> <p>5.2 Materials relevant to the proposed activity</p> <p>5.3 All tools, equipment, material and documentation required.</p> <p>5.4 Relevant specifications or work instructions</p>
6. Methods of assessment	<p>Methods of assessment may include but not limited to:</p> <p>6.1 Written test</p> <p>6.2 Demonstration</p> <p>6.3 Oral questioning</p> <p>6.4 Portfolio</p>
7. Context of assessment	<p>7.1 Competency assessment must be done in a training center or in an actual or simulated work place after Completion of the training module</p> <p>7.2 Assessment should be done by NSDA certified assessor</p>
<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	GU019L1V1: Deal with Clients/ Customers
Nominal Hours	10 Hours
Unit Descriptor	This unit covers the knowledge, skills and attitudes required to deal with clients. It includes response customer with due respect, perform customer service and ensure customer satisfaction
Elements of Competency	Performance Criteria <u>Bold and Underlined</u> terms are elaborated in the Range of Variables
1. Response customer with due respect	1.1 Customers required service and needs are responded with due <u>courteous manner</u> 1.2 Customer's attitude and psychology is recognized 1.3 Customers queries are responded with patience 1.4 Customers required service and needs are recorded in accordance with workplace procedures 1.5 Payment method is explained and agreed with customers 1.6 Customers are entertained as per workplace procedures
2. Perform customer service	2.1 Customer's security and confidentiality are ensured as per workplace standard 2.2 Customer special needs are identified and ensured in consultation with customer 2.3 Workplace health and hygiene are ensured as per workplace standard 2.4 Customer service is provided as required 2.5 Courtesy kind and sincere services are provided to ensure customers positive impression
3. Ensure customer satisfaction	3.1 Customers comments are requested about service provided 3.2 Possible causes of client/customer dissatisfaction are identified, dealt with and recorded 3.3 Customer satisfaction is reviewed and evaluated as per workplace standard 3.4 Customer service policy is replanted and readjusted based on evaluation 3.5 Customers details are recorded for future contact as per workplace standard
Range of variables	
Variables	Range (may include but not limited to):
1. Courteous manner	1.1 Greet customers with brighter smiling face 1.2 Polite greetings 1.3 Use decent words

Evidence Guide	
The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the Unit of Competency	
1. Critical aspects of competency	Assessment required evidence that the candidate: <ul style="list-style-type: none"> 1.1 responded customer with due respect 1.2 performed customer service 1.3 ensured customer satisfaction
2. Underpinning knowledge	<ul style="list-style-type: none"> 2.1. Uniform and personal grooming requirements of the employer and the client 2.2. Occupational Health and safety requirement for the assignment 2.3. Assignment Instructions
3. Underpinning Skills	<ul style="list-style-type: none"> 3.1. Attention to detail when completing client/employer documentation 3.2. Interpersonal and communication skills required in client contact assignments 3.3. Customer service skills required to meet client/customer needs 3.4. Punctuality 3.5. Customer Service 3.6. Telephone Technique 3.7. Problem Solving and Negotiation 3.8. Maintaining Records
4. Underpinning Attitudes	<ul style="list-style-type: none"> 4.1 Commitment to occupational health and safety 4.2 Promptness in carrying out activities 4.3 Sincere and honest to duties 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect for rights of peers and seniors in workplace 4.8 Communication with peers and seniors in workplace.
5. Resource Implications	The following resources must be provided: <ul style="list-style-type: none"> 5.1 Workplace (simulated or actual) 5.2 Different types of hand tools and power tools 5.3 Work books 5.4 Hand tools and power tools operating and maintenance manuals
6. Methods of Assessment	Methods of assessment may include but not limited to: <ul style="list-style-type: none"> 6.1 Written test 6.2 Demonstration 6.3 Oral questioning

7. Context of Assessment	<p>7.1 Competency assessment must be done in a training center or in an actual or simulated work place after completion of the training module</p> <p>7.2 Assessment should be done by NSDA certified assessor</p>
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Accreditation Requirements

Training Providers must be accredited by 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 national skills qualification. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.

Sector Specific Units of Competencies

Unit Code and Title	SUCS001L2V1: Work in the Informal Sector
Nominal Hours	20 Hours
Unit Descriptor	This unit covers the skills, knowledge and attitude required in working in the informal sector. It includes describe the organizational structure within the informal sector, identify processes and procedures, identify tools, equipment and materials, identify workplace practices, and organize own workload, and practice OHS.
Elements of Competency	Performance Criteria <u>Bold and Underlined</u> terms are elaborated in the Range of Variables.
1. Describe the organizational structure within the sector	1.1 Scope, nature and <u>major fields</u> of the informal sector are determined 1.2 The profile of the informal sector in relation to Bangladesh <u>employment conditions</u> 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 <u>Instructions</u> as to procedures in achieving quality are obtained, understood and clarified.
2. Identify processes and procedures	2.1 Informal processes are identified, described and explained. 2.2 Work activities are correctly identified. 2.3 Adjustments are interpreted.
3. Identify workplace requirements	3.1 <u>Workplace requirements</u> are identified and clarified. 3.2 Roles and responsibilities of all personnel are described. 3.3 Workplace's practices are identified. 3.4 <u>Problem-solving strategies</u> are used to address bottlenecks, inconsistencies and other concerns.
4. Organize own workload	4.1 Own work activities are planned and progress of work is communicated to relevant staff. 4.2 Work activities are completed. 4.3 Difficulties and bottlenecks are identified, and solutions are put forwarded. 4.4 Own work is monitored against workplace standards and areas for improvement identified and acted upon.
Range of Variables	
Variables	Range (may include but not limited to):
1. Major Fields	1.1 Food and flea markets 1.2 Street vendors

	1.3 laundromat
2. Employment conditions	2.1 Code of Practice 2.2 Salary/Wage System 2.3 Labor Practices 2.4 Anti-Discrimination Policy 2.5 Gender Issues 2.6 Collective Bargaining and Other Practices 2.7 Awards 2.8 Procedures for Handling Disputes 2.9 Innovations in the Sector
3. Instructions	3.1 Specifications and requirements 3.2 Standard operating procedures 3.3 Manuals of Instruction 3.4 Operations Manual 3.5 Environmental Guidelines 3.6 Gender and Develop Guidelines
4. Workplace requirements	4.1 Goals and objectives 4.2 Strategic and Operational Plans 4.3 Systems and Processes 4.4 Monitoring and Evaluation 4.5 Reports and Documentation
5. Problem-solving strategies	5.1 Asking questions 5.2 Feedback and Feed forward system 5.3 Reference to Standard Operating Procedures 5.4 Accessing Information 5.5 Reviews 5.6 Brainstorming
Evidence Guide The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the 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 the informal 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 informal sector 2.2 Relevant policies and guidelines in the informal sector 2.3 Manuals used in the informal sector 2.4 Relevant terminologies and acronyms 2.5 Workplace practices 2.6 Recording and reporting practices

3. Underpinning skills	3.1 Describing the organization structure 3.2 Identifying informal 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 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
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 Demonstration 6.2 Oral questioning 6.3 Written test
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 any NTVQF qualification. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.</p>	

Occupation Specific Units of Competencies

Unit Code and Title	OU-IS-BBSP-01-L2-EN-V1: Interpret Block Batik and Screen Printing
Unit Descriptor	This unit covers the skills, knowledge and attitude required to interpret Block Batik and Screen Printing. It specifically includes defining block batik and Screen Printing, recognizing the use of block batik and Screen Printing and identifying tools equipment and machinery.
Nominal Hours	40 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables
1. Define Block Batik and Screen Printing	1.1. Block Batik and Screen Printing is defined 1.2. <u>Batik</u> are classified as per working techniques 1.3. <u>Screen Printings</u> are classified as per chemicals use 1.4. <u>Block Batik and Screen Printing Terminologies</u> are interpreted 1.5. <u>Working flow chart of Block Batik and Screen Printing</u> are interpreted 1.6. <u>Job responsibilities of Block Batik and Screen Printing technicians</u> are interpreted and listed
2. Recognize the use of Block Batik and Screen Printing	2.1 <u>Use of block and batik</u> are identified 2.2 <u>Use of Screen Printing</u> are identified 2.3 Use of Block Batik and Screen Printing are listed as per use
3. Identify tools equipment and machinery	3.1 <u>Tools equipment and machinery</u> for Block Batik and Screen Printing are identified 3.2 Purpose of using each tools equipment and machine are interpreted. 3.3 Tools equipment and machinery are used as per Standard Operating Procedure (SOP)
Range of Variables	
Variables	Range (may include but not limited to):
1. Batik	1.1 Brush 1.2 Dice 1.3 Tjanting
2. Screen Printing	2.1 Normal 2.2 Emboss 2.3 Rubber/ Plastic

<p>3. Block Batik and Screen Printing terminologies</p>	<ul style="list-style-type: none"> 3.1 Block <ul style="list-style-type: none"> 3.1.1 Table preparation 3.1.2 Color preparation 3.1.3 Color tray, brush and pad (Banar) 3.1.4 Wooden dice 3.2 Batik <ul style="list-style-type: none"> 3.2.1 Wooden frame 3.2.2 Tjanting 3.2.3 Natural dye 3.2.4 Chemical dye 3.2.5 Cord / rope 3.2.6 Wax (Mome) 3.2.7 Resin (Rojon) 3.3 Tie dye <ul style="list-style-type: none"> 3.3.1 Shibori 3.3.2 Hand Needle and threads 3.3.3 Cord / rope 3.3 Screen Printing <ul style="list-style-type: none"> 3.1.1 Squeezer 3.1.2 Dark room 3.1.3 Negative 3.1.4 Tracing paper 3.1.5 Mesh fabric
<p>4. Working flow chart of Block Batik and Screen Printing</p>	<ul style="list-style-type: none"> 4.1 Block <ul style="list-style-type: none"> 4.1.1 Fabric preparation 4.1.2 Table preparation 4.1.3 Color tray preparation 4.1.4 Dice selection 4.1.5 Color mixing 4.1.6 Block printing 4.1.7 Drying 4.1.8 Finishing 4.2 Batik (Wax) <ul style="list-style-type: none"> 4.2.1 Fabric preparation 4.2.1 Table preparation 4.2.2 Wax mixing 4.2.3 Color preparation 4.2.4 Fabric Waxing 4.2.5 Coloration 4.2.6 Color fixing 4.2.7 Drying 4.2.8 Wax removing

	<ul style="list-style-type: none"> 4.2.9 Drying 4.2.10 Finishing 4.3 Batik (Tie dye) <ul style="list-style-type: none"> 4.3.1 Fabric preparation 4.3.2 Fabric tying as per design 4.3.3 Coloration 4.3.4 Drying 4.3.5 Knot opening 4.3.6 Final drying 4.3.7 Finishing 4.4 Screen Printing <ul style="list-style-type: none"> 4.4.1 Design selection 4.4.2 Screen preparation 4.4.3 Fabric Preparation 4.4.4 Table preparation 4.4.5 Color preparation 4.4.6 Printing 4.4.7 Drying 4.4.8 Finishing
5 Job responsibilities of Block Batik and Screen Printing technicians	<ul style="list-style-type: none"> 5.1 Ensure all safety issues in work place 5.2 Estimate and use chemicals as per exact requirements 5.3 Produce/ prepare goods on time 5.4 Ensure quality of the products 5.5 Follow instruction given by the supervisor/ owner
6 Use of Block and Batik	<ul style="list-style-type: none"> 6.1 Apparels <ul style="list-style-type: none"> 6.1.1 Saree 6.1.2 Salwar kamiz 6.1.3 Shirt 6.1.4 Panjabi 6.1.5 Fotua 6.1.6 Ladies shawl 6.1.7 Baby dress 6.2 Home textiles <ul style="list-style-type: none"> 6.2.1 Bed sheets 6.2.2 Cousin cover 6.2.3 Curtains 6.2.4 Table cloth 6.2.5 Runner 6.2.6 Sofa cover 6.3 Handicrafts <ul style="list-style-type: none"> 6.3.1 Ladies bag 6.3.2 Wallet

	6.3.3 Shopping bag 6.3.4 File folders
7. Use of Screen Printing	7.1 Apparels 7.2 Home textiles 7.3 Handicrafts 7.4 Paper items
8. Tools equipment and machinery	8.1 Block 8.1.1 Color tray 8.1.2 Wooden dice 8.1.3 Color mixing brush 8.1.4 Dice cleaning brush 8.1.5 Spoon 8.1.6 Bowl with cover 8.1.7 Bucket 8.1.8 Mug 8.1.9 Iron machine 8.2 Batik 8.2.1 Sauce Pan 8.2.2 Iron pan 8.2.3 Wooden spoon 8.2.4 Burner / Stove 8.2.5 Bowl 8.2.6 Bucket 8.2.7 Batik dice 8.2.8 Brush 8.2.9 Tjanting 8.3 Tie dye 8.3.1 Hand needle 8.3.2 Bowl 8.3.3 Bucket 8.3.4 Iron pan 8.3.5 Wooden spoon 8.4 Screen Printing 8.4.1 Screen 8.4.2 Color bowl 8.4.3 Spoon 8.4.4 Squeezer 8.4.5 Dryer
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 defined block batik and Screen Printing 1.2 interpreted block batik terminologies 1.3 recognized use of block batik and Screen Printing 1.4 identified tools equipment and machinery 1.5 used tools equipment and machinery
2. Underpinning knowledge	<ul style="list-style-type: none"> 2.1 Block batik and Screen Printing terminologies 2.1 Classification of batik and Screen Printing 2.2 Use of block batik and Screen Printing 2.3 Working flow chart of block batik and Screen Printing 2.4 Tools equipment and machinery for block batik and Screen Printing
3. Underpinning skills	<ul style="list-style-type: none"> 3.1 Defining block batik and Screen Printing 3.2 Interpreting block batik and Screen Printing terminologies 3.3 Interpreting job responsibilities of block batik and Screen Printing technicians 3.4 Using block batik and Screen Printing 3.5 Identifying and using block batik and Screen Printing tools equipment and machineries
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 Relevant materials for block batik and Screen Printing 5.3 Tools equipment and machinery block batik and Screen Printing 5.4 Fabric 5.5 Sample of block batik and Screen Printing
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	<ul style="list-style-type: none"> 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-L2-V1: Identify and prepare raw materials
Unit Descriptor	This unit covers the skills, knowledge and attitude required to identify and prepare raw materials. It specifically includes selecting and using fabrics, using colors and estimating chemicals.
Nominal Hours	60 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables
1. Select fabrics	1.1 <u>Fabrics</u> are identified as per construction 1.2 <u>Fabric categories</u> are recognized as per use 1.3 Fabrics are selected as per <u>surface ornamentation techniques.</u> 1.4 <u>Fabrics processing</u> are performed as per standard requirements
2. Identify colors	2.1 <u>Colors</u> are identified 2.2 <u>Measuring tools</u> are identified and used 2.3 <u>Mixing of different colors</u> are practiced as per SOP 2.4 <u>Types of dyes</u> are categorized 2.5 Colors are selected as per workplace standard
3. Estimate chemicals	3.1 <u>Chemicals for block and Screen Printing</u> are identified 3.2 <u>Chemicals for batik and tie dye</u> are identified 3.3 Chemical requirements are <u>estimated</u> as per use 3.4 Chemicals are selected as per the requirements 3.5 Caution for using different chemicals are interpreted and followed
Range of Variables	
Variables	Range (may include but not limited to):
1. Fabrics	1.1 Woven 1.2 Knit 1.3 Non-woven
2. Fabric categories	2.1 Cotton 2.2 Silk 2.3 Georgette 2.4 Muslin 2.5 Linen 2.6 Khadi 2.7 Polyester
3. surface ornamentation techniques	3.1 Block 3.2 Batik 3.3 Tie dye

	<ul style="list-style-type: none"> 3.4 Screen Printing 3.5 Spray print 3.6 Hand paint
4. Fabrics processing	<ul style="list-style-type: none"> 4.1 Washing 4.2 Ironing
5. Colors	<ul style="list-style-type: none"> 5.1 Primary Colors 5.2 Secondary colors 5.3 Tertiary colors
6. Measuring tools	<ul style="list-style-type: none"> 6.1 Weight scale 6.2 Spoon
7. Mixing of different colors	<ul style="list-style-type: none"> 7.1 Red + Yellow = Orange 7.2 Yellow + Blue = Green 7.3 Blue + Red = Violet 7.4 Red + White = Pink 7.5 Black + White = Ash 7.6 Blue + White = Sky blue 7.7 Red + Black + yellow = Chocolate
8. Types of dyes	<ul style="list-style-type: none"> 8.1 Reactive dye 8.2 Prussian dye 8.3 Vat dye 8.4 Sulphur dye 8.5 Naphthol dye 8.6 Direct dye
9. Chemicals for block and Screen Printing	<ul style="list-style-type: none"> 9.1 Acramin 9.2 P G gum 9.3 Apriton 9.4 Binder 9.5 N K fixer 9.6 Oxale (Oxalic Acid) 9.7 F-53 9.8 Nylon fixer 9.9 CCL 9.10 TT powder 9.11 Emboss gum 9.12 Afsan: Golden and Silver 9.13 PVC color
10. Chemicals for batik and tie dye	<ul style="list-style-type: none"> 10.1 Wax (white, honey) 10.2 Resin (Rojon) 10.3 Vat 10.4 Prussian 10.5 Sulphur 10.6 Naphthol 10.7 Fine gum

	10.8 Caustic soda 10.9 Salt 10.10 Sodium nitrite 10.11 Monopole soap 10.12 Sulfuric acid 10.13 Alumina sulfate 10.14 Hydrous
11. Estimated	11.1 Types of materials 11.2 Quantity of product 11.3 Area of Design 11.4 Shade of the color 11.5 Absorbency of the fabric
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 selected and categorized fabrics 1.2 performed fabric processing 1.3 identified and selected colors 1.4 measuring and mixing colors 1.5 categorized dyes 1.6 identified and estimated chemicals 1.7 followed caution for using dyes and chemicals
2. Underpinning knowledge	2.1 Fabric and categories 2.2 Surface ornamentation techniques 2.3 Fabric processing 2.4 Colors and types 2.5 Measuring and mixing colors 2.6 Dyes and types 2.7 Chemicals and types 2.8 Chemicals selection and estimation 2.9 Caution for using chemicals
3. Underpinning skills	3.1 Identifying fabrics 3.2 Categorizing and selecting fabrics 3.3 Performing fabric processing 3.4 Identifying colors 3.5 Measuring and mixing colors 3.6 Identifying and selecting dyes and chemicals 3.7 Estimating chemicals 3.8 Following caution during handling chemicals

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 Different types of fabrics 5.3 Fabric processing facility 5.4 Different types of dyes and chemicals 5.5 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-03-L2-V1: Carryout Surface Ornamentation by Block Print
Unit Descriptor	This unit covers the skills, knowledge and attitude required to carry out surface ornamentation by block print. It specifically includes following OSH practices, preparing for block print, performing single color block print, performing multi-color block print, performing finishing and quality checking and cleaning and maintaining the 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 Block print	2.1 <u>Tools, equipment</u> and <u>materials</u> are selected and collected for Block print 2.2 <u>Working Table</u> for Block printing is covered with Hessian Cloth (chot), light foam and blanket for making pad 2.3 Pad is covered with marking cloth 2.4 Fabrics are selected for block printing 2.5 <u>Fabric processing</u> is performed in case of starch in the fabric 2.6 <u>Print paste</u> is prepared for block printing if not using ready paste 2.7 Wooden dices (Blocks) are selected and collected as per design specification
3 Perform single color Block print	3.1 Wooden dices and print paste are checked and tested on wastage fabrics or paper 3.2 Fabric is laid on table and pinned to avoid distortion 3.3 Single color block print is performed on selected fabrics as per design specification 3.4 Printed fabric is dried as per standard requirements
4 Perform Multi-color Block print	4.1 Wooden dices and print pastes are checked and tested on wastage fabrics or paper 4.2 Multi-color block print is performed one by one on selected fabrics as per design specification 4.3 Printed fabric is dried as per standard requirements
5 Perform finishing and quality checking	5.1 Opposite side of dried fabric is ironed as per requirement 5.2 Quality is checked and <u>faults</u> are identified as per client's requirements 5.3 <u>Faults rectification</u> is performed if possible

	5.4 Finished products are folded, packed and stored as per standard procedure
6 Clean and maintain the tools and workplace	6.1 Excess print pastes are stored separately in air tight container for further use 6.2 Work aids are immersed with water and washed with plastic brush 6.3 Wooden dice and other 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, equipment	2.1 Working table 2.2 Wooden dice 2.3 Color tray 2.4 Blanket piece 2.5 Polythene 2.6 Color mixing brush 2.7 Color brush 2.8 Pot and spoon 2.9 Cleaning brush 2.10 Wooden scale 2.11 Measuring tape 2.12 Scissors 2.13 Iron machine
3. Materials	3.1 Fabrics 3.2 Color 3.3 Chemicals 3.4 Chalk 3.5 Paper
4. Working table	The measurement of the table should be 4.1 Length: 5 feet-12 feet 4.2 Width: 3 feet- 4 feet 4.3 Height: 3 feet - 4 feet
5. Fabric processing	5.1 Washing 5.2 Drying 5.3 Ironing

6. Print paste	6.1 Newtex 6.1.1 Water 6.1.2 PG gum 6.1.3 Apiton 6.1.4 Binder 6.1.5 NK fixer 6.1.6 Oxale (Oxalic Acid) 6.2 White paste 6.2.1 Water 6.2.2 TT powder 6.2.3 Apiton 6.2.4 Binder 6.2.5 NK fixer 6.2.6 Oxale (Oxalic Acid) 6.3 Golden paste 6.3.1 White paste 6.3.2 Golden yellow color 6.3.3 Golden Afsan 6.4 Silver paste 6.4.1 White paste 6.4.2 Black color 6.4.3 Silver Afsan 6.5 Afsan 6.5.1 F-53 6.5.2 Golden Afsan/ Silver Afsan
7. Faults	7.1 Hazy print 7.2 Color drops 7.3 Wrong color used 7.4 Unmatched corner print 7.5 Unmatched repeat
8. Faults rectification	8.1 Retouched with color and brush for hazy and unmatched print 8.2 Retouched with fabric color for color drops removal
9. Finished products	9.1 Saree 9.2 Bed sheet 9.3 Cousin cover 9.4 Curtain 9.5 Shirt 9.6 Panjabi 9.7 Fotua 9.8 Salwar- kamiz

	9.9 Baby dress
10. Work aids	10.1 Wooden dice 10.2 Color tray 10.3 Foam and blanket of color tray 10.4 Color brush 10.5 Pots and spoon 10.6 Bucket
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 prepared working table 1.4 performed fabric processing 1.5 prepared print paste 1.6 performed single and multi-color block print 1.7 performed finishing and quality checking 1.8 identified and rectified faults
2. Underpinning knowledge	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 Single and multi-color block print 2.8 Finishing process 2.9 Quality checking of finished goods 2.10 Maintenance of tools and equipment for block batik and Screen Printing
3. Underpinning skills	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 and multi-color block 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

	<ul style="list-style-type: none"> 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 block batik and Screen Printing 5.4 Fabrics for block print 5.5 Fabric processing facility 5.6 Working table 5.7 Dyes and chemicals for block print 5.8 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	<ul style="list-style-type: none"> 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-04-L2-V1: Perform Tie Dye
Unit Descriptor	This unit covers the skills, knowledge and attitude required to perform tie dye. It specifically includes following OSH practices, preparing for tie dye, performing tying, performing dyeing, performing finishing and quality checking and cleaning and maintaining tools and equipment.
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 tie dye	2.1 <u>Tools, equipment</u> and <u>materials</u> are selected and collected for tie dye 2.2 Fabrics are selected for tie dye 2.3 <u>Fabric processing</u> is performed
3. Perform tying	3.1 Design for tie dye is selected 3.2 <u>Tying materials</u> are selected and collected 3.3 Tying positions are marked as per selected design 3.4 Tying is performed 3.5 Tying is checked to confirm appropriate design
4. Perform dyeing	4.1 Tied fabrics are immersed with water to make it wet 4.2 <u>Solution for dye bath</u> is prepared to meet design specification 4.3 Fabrics are treated with dye bath until achieving desired shade as per fabric and color 4.4 Dyed fabrics are washed with water to remove excess color 4.5 Tie are untied and checked with the design 4.6 Dyed fabrics are dried as per workplace standard
5. Perform finishing and quality checking	5.1 Dried fabrics are ironed as per requirement 5.2 Quality is checked and <u>faults</u> are identified as per client's requirements 5.3 <u>Finished products</u> are folded, packed and stored as per standard procedure
6. Clean and maintain tools and workplace	6.1 Used dyes are disposed off as per workplace standard 6.2 Tools and equipment are cleaned and stored as per workplace standard 6.3 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 Hand gloves 1.3 Apron 1.4 Safety shoe/ boots 1.5 Safety Glass/ Goggles
2. Tools equipment	2.1 Scissors 2.2 Iron pan 2.3 Measuring tape 2.4 Wooden scale 2.5 Pot 2.6 Wooden spoon 2.7 Bucket/ Bowl 2.8 Burner/ Stove 2.9 Iron machine
3. Materials	3.1 Fabrics 3.2 Color 3.3 Chemicals 3.4 Chalk 3.5 Hand needles 3.6 Threads/ Rope 3.7 Polythene
4. Fabric processing	4.1 Washing 4.2 Drying 4.3 Ironing
5. Tying materials	5.1 Hand needle 5.2 Thread/ Cord / Rope 5.3 Polythene 5.4 Coin 5.5 Fire box 5.6 Stone
6. Solution for dye baths	6.1 Vat dye 6.1.1 Vat color 6.1.2 Hydrous 6.1.3 Caustic Soda 6.1.4 Salt 6.2 Prussian dye 6.2.1 Prussian color 6.2.2 Salt 6.2.3 Soda 6.3 Sulphur dye

	6.3.1 Sulphur color 6.3.2 Sodium 6.3.3 Dye fixer 6.4 Naphthol dye 6.4.1 Naphthol AS/ Naphthol BS 6.4.2 Monopole soap 6.4.3 Caustic soda 6.4.4 Alumina sulfate 6.4.5 Sodium nitrate 6.4.6 Sulfuric acid 6.5 Natural or vegetable dye 6.5.1 Vegetable (Indigo, Khoyer, Horitoki, pomegranate (Dalim), Onion peel, Turmeric, Wood powder, Mulberry etc.) 6.5.2 Copper sulfate 6.5.3 Ferrous sulfate 6.5.4 Potassium Dichromate 6.5.5 Caustic soda 6.5.6 Soda 6.5.7 Salt
7. Faults	7.1 Loose tie 7.2 Dye penetration inside knot 7.3 Design mismatch 7.4 Wrong color 7.5 Shade variation 7.6 Rejection
8. Finished Products	8.1 Saree 8.2 Bed sheet 8.3 Cousin cover 8.4 Curtain 8.5 Shirt 8.6 Panjabi 8.7 Fotua 8.8 Salwar- kamiz 8.9 Baby dress
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 selected and collected PPE 1.2 selected and collected tools, equipment and materials 1.3 performed fabric processing 1.4 selected tie dye design

	<ul style="list-style-type: none"> 1.5 performed tying 1.6 prepared dye bath 1.7 performed dyeing 1.8 performed finishing and quality checking 1.9 maintained tools equipment and workplace
2. Underpinning knowledge	<ul style="list-style-type: none"> 2.1 Personal Protective Equipment (PPE) 2.2 Tools, equipment for tie dye 2.3 Fabric selection 2.4 Fabric processing 2.5 Tie dye 2.6 Dye bath preparation 2.7 Finished goods checking and quality inspection
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 Processing fabric and tying 3.4 Preparing dye bath 3.5 Dyeing fabrics 3.6 Performing finishing and finished products checking
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 tie dye 5.4 Fabrics for tie dye 5.5 Fabric processing facility 5.6 Dyes and chemicals for tie dye 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	<ul style="list-style-type: none"> 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 Training Providers must be accredited by National Skills Development Authority (NSDA), the National Quality Assurance Body, or a body with delegated authority for quality</p>	

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-05-L2-V1: Perform single color Batik
Unit Descriptor	This unit covers the skills, knowledge and attitude required to perform single color batik. It specifically includes following OSH practices, preparing for single color batik, carrying out waxing, carrying out single color batik, 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 single color Batik	2.1 <u>Tools, equipment</u> and <u>materials</u> are selected and collected for single color batik 2.2 Fabrics are selected for batik 2.3 <u>Fabric processing</u> is performed
3. Carryout waxing	3.1 Design for waxing is selected 3.2 <u>Waxing liquid</u> is prepared 3.3 Fabric is laid on table and pinned to avoid distortion 3.4 Waxing is performed using <u>waxing tools</u> as per the design 3.5 Waxed fabric is dried as per workplace standard
4. Carryout single color Batik	4.1 <u>Solution for dye bath</u> is prepared to meet color specification 4.2 Fabrics are treated with dye bath until achieving desired shade as per fabric and color 4.3 Dyed fabrics are dried as per workplace standard 4.4 Dyed fabrics are treated with hot water and detergent to remove wax 4.5 Dyed fabrics are washed with water 4.6 Dyed fabrics are dried as per workplace standard
5. Carryout finishing and quality checking	5.1 Dried fabrics are ironed as per requirement 5.2 Quality 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 Used dyes and wax are disposed off as per workplace standard

	6.2 Tools and equipment are cleaned and stored as per workplace standard 6.3 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 4.3 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
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

	<ul style="list-style-type: none"> 7.3 Sulphur dye <ul style="list-style-type: none"> 7.3.1 Sulphur color 7.3.2 Sodium 7.3.3 Dye fixer 7.4 Naphthol dye <ul style="list-style-type: none"> 7.4.1 Naphthol AS/ Naphthol BS 7.4.2 Monopole soap 7.4.3 Caustic soda 7.4.4 Alumina sulfate 7.4.5 Sodium nitrate 7.4.6 Sulfuric acid 7.5 Natural or vegetable dye <ul style="list-style-type: none"> 7.5.1 Vegetable (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	<ul style="list-style-type: none"> 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 and related treatment

	<ul style="list-style-type: none"> 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 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	<ul style="list-style-type: none"> 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-06-L2-V1: Perform single color Screen Printing
Unit Descriptor	This unit covers the skills, knowledge and attitude required to perform single color Screen Printing. It specifically includes following OSH practices, preparing for single color Screen Printing, carrying out single color Screen Printing, carrying out finishing and quality checking and cleaning and maintaining tools and workplace.
Nominal Hours	45 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 single 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 frame is 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 single color Screen Printing	3.1 Screen frame and print paste are checked and tested on wastage fabrics 3.2 Fabric is laid on table 3.3 Single color Screen Printing is performed on selected fabrics as per design specification 3.4 Printed fabric is <u>dried</u> 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 garments 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 1.4 Safety shoe/ boots
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 Chalk
4 Fabric processing	4.1 Washing 4.2 Drying 4.3 Ironing
5 Working table	The specification of the table should be 5.1 Measurement 5.1.1 Length: 5 feet-16 feet 5.1.2 Width: 3 feet - 5 feet 5.1.3 Height: 3 feet - 4 feet
6 Print paste	6.1 Newtex

	<ul style="list-style-type: none"> 6.1.1 Water 6.1.2 PG gum 6.1.3 Apiton 6.1.4 Binder 6.1.5 NK fixer 6.1.6 Oxale (Oxalic Acid) 6.2 White paste <ul style="list-style-type: none"> 6.2.1 Water 6.2.2 TT powder 6.2.3 Apiton 6.2.4 Binder 6.2.5 NK fixer 6.2.6 Oxale (Oxalic Acid) 6.3 Golden paste <ul style="list-style-type: none"> 6.3.1 Newtex/ F-53 6.3.2 Golden yellow color 6.3.3 Golden afsan 6.4 Silver paste <ul style="list-style-type: none"> 6.4.1 Newtex/ F-53 6.4.2 Black color 6.4.3 Silver Afsan 6.5 Afsan <ul style="list-style-type: none"> 6.5.1 F-53 6.5.2 Golden Afsan/ Silver Afsan
7 Dried	<ul style="list-style-type: none"> 7.1 Dryer 7.2 Sunlight
8 Faults	<ul style="list-style-type: none"> 8.1 Hazy print 8.2 Stain 8.3 Color drops 8.4 Wrong color used 8.5 Color bleeding 8.6 Unmatched repeat
9 Work aids	<ul style="list-style-type: none"> 9.1 Screen frame 9.2 Squeezer 9.3 Color pot 9.4 Pot and spoon 9.5 Bucket
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: <ul style="list-style-type: none"> 1.1 followed OSH practices

	<ul style="list-style-type: none"> 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 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 Screen Printing 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
5. Resource implications	<ul style="list-style-type: none"> 6.1 Workplace (simulated or actual) 6.2 Personal Protective Equipment (PPE) 6.3 Tools, equipment and machinery for Screen Printing 6.4 Fabrics for Screen Printing 6.5 Fabric processing facility 6.6 Working table 6.7 Dyes and chemicals for Screen Printing 6.8 Chemical measuring tools and equipment

7. Methods of assessment	Competency should be assessed by: 6.1 Written test 6.2 Demonstration 6.3 Oral Questioning
9. 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>	

Development of Competency Standard

The Competency Standards for National Skills Certificate in Block Batik and Screen Printing Occupation, Level- 2 is developed by NSDA 23-27 October 2022.

List of Members

SI No	Name and Address	Position in the committee	Signature
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Validation of Competency Standard

The Competency Standards for National Skills Certificate in Block Batik and Screen Printing, Level- 2 is validated by NSDA 8th November 2022.

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