

COMPETENCY STANDARD FOR WOVEN SEWING MACHINE OPERATION

Level: 2

(RMG & Textile Sector)

Competency Standard Code: CS-RMGT-WSMO-L2-EN-V1



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

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This Competency Standard for Woven Sewing Machine Operation 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 RMG & Textile 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. "Woven Sewing Machine Operation" is selected as one of the priority occupations of RMG & Textile 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 Woven Sewing Machine Operation in RMG and Textile 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 21st Authority Meeting of NSDA Held on 19.09.2022

Md. Saniul Ferdous
Deputy Director (Admin)
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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 Woven Sewing Machine Operation in RMG & Textile Sector

Course Structure

SL	Unit code and Title Level			Nominal (hours)		
No	eneric Units of Competencies					
GCIIC	The Omits of Competencies	T	Т			
1.	GU-02-L2-V1	Apply Occupational Safety and Health (OSH) Procedure in the Workplace	2	15		
2.	GU-06-L3-V1	Receive and Respond to Workplace Instructions	3	15		
3.	GU-04-L3-V1	Work in a Team Environment	3	20		
Sub '	Fotal			50		
Secto	or Specific Units of Competencies	3				
4.	SU-RMGT-01-L2-V1	Recognize the RMG Business Scenario	2	15		
5.	SU-RMGT-02-L3-V1	Perform Measurement and Calculations	3	15		
6.	SU-RMGT-03-L3-V1	Interpret Sketch and Specifications in Manuals	3	15		
Sub Total			45			
Occu	pation Specific Units of Compete	encies				
7.	OU-RMGT-WSMO-01-L2-V1	Interpret Woven Fabrics and Garments	2	15		
8.	OU-RMGT-WSMO-02-L2-V1	Prepare for Sewing Operation	2	35		
9.	OU-RMGT-WSMO-03-L2-V1	Operate Industrial Sewing Machine	2	100		
10.	OU-RMGT-WSMO-04-L2-V1	Make Pants	2	115		
Sub Total				265		
Total Duration				360		

Units & Elements at Glance

Generic Competencies

Code	Unit of competency	Elements of competency	Duration (hours)
GU-02-L2-V1	Apply Occupational Safety and Health (OSH) Procedure in the Workplace	 Identify OSH policies and procedures Follow OSH procedures Report hazards and risks Respond to emergencies Maintain personal wellbeing 	15
GU-06-L3-V1	Receive and Respond to Workplace Instructions	 Interpret and follow verbal instructions Read and interpret workplace documents Receive and follow written instructions Attend meetings and provide inputs 	15
GU-04-L3-V1	Work in a Team Environment	 Define team role and scope Identify individual role and responsibility Participate in team discussions Work as a team member 	20
	•	Total hours	50

Sector specific competencies

Code	Unit of competency	Elements of competency	Duration (hours)
		Identify basic business communication practices in RMG sector	
SU-RMGT-01-L2-V1	Recognize the RMG Business Scenario	2. Recognize history of RMG industries in Bangladesh	15
	Section	3. Identify major departments of RMG industry	
		4. List prime export markets	
SU-RMGT-02-L3-V1	Perform Measurement and	 Select measuring devices Obtain measurements for apparel 	15
	Calculations	3. Perform simple calculations	
GV DVGT 00 VOV	Interpret Sketch	Identify information from manual	1.7
SU-RMGT-03-L3-V1	and Specifications in Manuals	2. Interpret sketch and specifications	15
		Total hours	45

Occupation specific competencies

Code	Unit of competency	Elements of competency	Duration (hours)
OU-RMGT-WSMO-01-L2-V1	Interpret Woven Fabrics and Garments	 Interpret woven fabrics Interpret woven garments Interpret handling procedure of woven fabric 	15
OU-RMGT-WSMO-02-L2-V1	Prepare for Sewing Operation	 Identify pattern and garments parts Identify machine, tools and materials Apply the attachments of sewing machine Set up machine for operation 	35
OU-RMGT-WSMO-03-L2-V1	Operate Industrial Sewing Machine	 Follow safety procedure at workplace Operate single needle machine Operate double needle machine Operate overlock machine Operate feed of the arm machine Operate flat lock machine Operate multi needle chain stitch machine Maintain and clean workplace 	100
OU-RMGT-WSMO-04-L2-V1	Make Pants	 Follow safety procedure at workplace Identify process of pants Perform stitch operation for pants Check stitch quality of pants Maintain and clean workplace 	115
		Total Hours	265

Generic Units of Competencies

	GU-02-L2-V1: Apply Occupational Safety and		
Unit Code and Title	Health (OSH) Procedure in The		
	Workplace		
	This unit covers the knowledge, skills and attitudes required to apply occupational safety and health (OSH) procedure in the workplace.		
Unit Descriptor	It specifically includes identifying OSH policies and procedures, following OSH procedures, reporting hazards and risks, responding to emergencies, and maintaining personal wellbeing.		
Nominal Hours	15 Hours		
Elements of Competency	Performance Criteria Bold & Underlined terms are elaborated in the Range of Variables		
Identify OSH policies and procedures	1.1. OSH policies and safe operating procedures are accessed and stated		
and procedures	1.2. Safety signs and symbols are identified and followed		
	1.3. Emergency response, evacuation procedures and other		
	contingency measures are determined according to		
	workplace requirements		
2. Follow OSH procedures	2.1 <u>Personal protective equipment (PPE)</u> is selected and collected as required		
r	2.2 Personal protective equipment (PPE) is correctly used in accordance with organization OSH 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 OSH regulations		
3. Report hazards and	3.1 Hazards and risks are identified, assessed and controlled		
risks	3.2 Incidents arising from hazards and risks are reported to designated authority		
4. Respond to	4.1 Alarms and warning devices are responded		
emergencies	4.2 Workplace emergency procedures 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 Frist aid procedures is applied during emergency situations		
5. Maintain personal	5.1 OSH policies and procedures are adhered to OSH		
well-being	awareness programs are participated in as per workplace		
	guidelines and procedures		

Γ	
	5.2 Corrective actions are implemented to correct unsafe
	condition in the workplace
	5.3 <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. OSH policies	1.1. Bangladesh standards for OSH
	1.2. Fire Safety Rules and Regulations
	1.3. Code of Practice
	1.4. Industry Guidelines
2. Safe operating	2.1 Orientation on emergency exits, fire extinguishers, fire
procedures	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	3.1 Direction signs (exit, emergency exit, etc.)
symbols	3.2 First aid signs
	3.3 Danger Tags
	3.4 Hazard signs
	3.5 Safety tags
	3.6 Warning signs
4. Personal Protective	4.1 Gas Mask
Equipment (PPE)	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	6.1 Fire fighting
Procedures	6.2 Earthquake
	6.3 Medical and first aid
	6.4 evacuation`

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	<u> </u>	
The evidence must be aut	hentic	e, valid, sufficient, reliable, consistent, recent and meet all
requirements of current ve	rsion	of the Unit of Competency
	Asse	essment required evidence that the candidate:
	1.1	stated OSH policies and safe operating procedures
	1.2	followed safety signs and symbols
1. Critical aspects of	1.3	used personal protective equipment (PPE)
competency	1.4	maintained workplace clear and tidy
competency	1.5	assessed and Controlled hazards
	1.6	followed emergency procedures
	1.7	followed contingency measures
	1.8	implemented corrective actions

	5.2	Equipment and outfits appropriate in applying safety
		measures
	5.3	Tools, equipment, materials and documentation required
	5.4	OSH Policies and Procedures
	Com	petency should be assessed by:
6. Methods of	6.1	Written test
assessment	6.2	Demonstration
	6.3	Oral Questioning
	7.1	Competency assessment must be done in NSDA
7. Context of assessment		accredited assessment centre
	7.2	Assessment should be done by a NSDA
		certified/nominated assessor

TI to G. I. I. I. I. I.	GU-06-L3-V1: Receive and Respond to	
Unit Code and Title	Workplace Instructions	
Nominal Hours	15 Hours	
	This unit covers the knowledge, skills and attitudes required to receive and respond to workplace instructions.	
Unit Descriptor	It specifically includes interpreting and following verbal instructions, reading and interpreting workplace documents, receiving and following written instructions and attending meetings and providing inputs.	
	Performance Criteria	
Elements of Competency	Bold and Underlined terms are elaborated in the Range of Variables Training Components.	
Interpret and follow verbal Instructions	 1.1 Verbal Instructions are interpreted 1.2 Questions are asked to clarify understanding or obtaining more information 1.3 Instructions are followed as per understanding 	
	1.4 Information/ instruction is recorded	
2. Read and interpret workplace documents	2.1 <u>Written instructions</u> are read and interpreted in accordance with <u>workplace guidelines</u> 2.2 Work <u>signage</u> are interpreted	
3. Receive and follow written instructions	 3.1 Written instructions are interpreted 3.2 Routine written instructions are followed in sequence 3.3 Feedback is given to workplace supervisor based on workplace guidelines 	
4 Attend meetings and provide inputs	 4.1 Meetings are attended regularly and on time following well-disseminated agenda 4.2 Proper <u>Communication</u> methods are used to transmit instructions 4.3 Appropriate non-verbal communication is used 4.4 Inputs are provided consistent with the meeting purpose 4.5 Opinions are expressed without interruption 4.6 Meeting outputs are implemented 	
Range of Variables		
Variable	Range (may include but not limited to):	
1. Written instructions	 1.1 Supervisor's / Manager's Instructions 1.2 Memoranda 1.3 Rules and Regulations 1.4 Signage 1.5 Approved Work Plan 1.6 External communications 	

2. Workplace guidelines	2.1. Labor Policies and Guidelines
	2.2. Written Instructions
	2.3. Operations Manual
	2.4. Organizational Manuals
	2.5. Quality Assurance Handbook
	3.1 On-site direction signs
2 Signage	3.2 Common site warnings
3. Signage	3.3 Location signs
	3.4 Traffic signs
	4.1 Verbal instructions
4. Communication	4.2 Written instructions
	4.3 Online communication
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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.

the requirements of the current version of the offic of Competency.		
Critical Aspects of Competency	Assessment required evidence that the candidate:	
	1.1 demonstrated knowledge of workplace procedures in receiving, interpreting read verbal & written	
	instruction and conduct communication	
	1.2 satisfying the requirements mentioned in the	
	performance criteria and range of variables	
2. Underpinning	2.1 Workplace Communication Policies, Standards and Procedures	
Knowledge	2.2 Verbal and Non-verbal communication	
	2.3 Modes of Communication	
	3.1 Receiving verbal instructions	
	3.2 Interpreting verbal and written information/	
2 11 1	instruction	
3. Underpinning Skills	3.3 Conveying instructions using verbal and	
	3.4 Written forms of communication	
	3.5 Participating in work place meetings and Discussions	
	4.1 Commitment to occupational health and safety	
	4.2 Environmental concerns	
4. Underpinning Attitudes	4.3 Eagerness to learn	
4. Olderplining Attitudes	4.4 Tidiness and timeliness	
	4.5 Respect for rights of peers and seniors in workplace	
	4.6 Communication with peers and seniors in workplace	
	The following resources must be provided:	
5. Resource Implications	5.1 Workplace (actual or simulated)	
	5.2 Telephone	
	5.3 Writing materials	
6 Methods of Assessment	Competency should be assessed by:	
o modiods of rissossificit	6.1 Written test	

	6.2	Demonstration
	6.3	Oral Questioning
7 Context of Assessment	7.1	Competency assessment must be done in a NSDA accredited assessment centre Assessment should be done by an NSDA certified/nominated assessor

Unit Code and Title	GU-06-L3-V1: Work in a Team Environment	
Unit Descriptor	This unit covers the knowledge, skills and attitudes required to working in a team environment.	
Unit Descriptor	It includes defining team role and scope, identifying individual role and responsibility, participating in team discussions and working as a team member.	
Nominal Hours	20 Hours	
Elements of Competency	Performance Criteria Bold & Underlined terms are elaborated in the Range of Variables	
	1.1. Role and objectives of the team are defined	
Define team role and scope	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	3.1 Ideas related to team plans are contributed	
discussions	3.2 Recommendations for improving team work are put forward	
4. Work as a team	4.1. Effective forms of communication are used to interact	
member	with team members	
	4.2. Communication channels are followed	
D 637 111	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	
E-:1 C :1	1.4 Employee representative	
	entic, valid, sufficient, reliable, consistent, recent and meet all sion of the Unit of Competency	
requirements of current vers	Assessment required evidence that the candidate:	
Critical aspects of	1.1 demonstrated knowledge in working in a team environment	
competency	1.2 satisfied the requirements mentioned in the	
	Performance Criteria and Range of Variables	

	2.1 Team Structure, Role and Responsibility
2. Underpinning knowledge	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
	3.1 Identifying the role and responsibility of the team
	3.2 Identifying roles and responsibilities of individual
3. Underpinning skills	members
	3.3 Participating in team discussions
	3.4 Working as a team member
	4.1 Commitment to occupational health and safety
	4.2 Environmental concerns
1 Undominaina Attitudas	4.3 Eagerness to learn
4. Underpinning Attitudes	4.4 Tidiness and timeliness
	4.5 Respect for rights of peers and seniors in workplace
	4.6 Communication with peers and seniors in Workplace
	5.1 Pens
	5.2 Telephone
5. Resource implications	5.3 Computer
	5.4 Writing materials
	5.5 Online communication
	Competency should be assessed by:
6. Methods of assessment	6.1. Written test
	6.2. Demonstration
	6.3. Oral Questioning
	7.1 Competency assessment must be done in NSDA
7.0.4.5	accredited assessment center
7. Context of assessment	7.2 Assessment should be done by a NSDA
	certified/nominated assessor

Sector Specific Units of Competencies

Unit Code and Title	SU-RMGT-01-L2-V1: Recognize the RMG		
	Business Scenario		
Nominal Hours	15 Hours		
Unit Descriptor	This unit covers the knowledge; skills and attitude required for recognize the RMG business scenario. It specifically includes identifying basic business communication practices in RMG sector, recognizing history of RMG industries in Bangladesh, identifying major departments of RMG industry and listing prime export markets.		
Elements of	Performance Criteria Rold and Underlined terms are alchomated in the Bonce of		
Competency	Bold and Underlined terms are elaborated in the Range of Variables.		
Identify basic business communication practices in RMG sector	 1.1 The communication requirements in the RMG sector are recognized in alignment to the role of sector 1.2 Modes of Communication are explained 1.3 Communication policies and guidelines are identified and interpreted 		
2. Recognize history of RMG industries in Bangladesh	 2.1 Background of RMG Industries in Bangladesh is inferred with reference to the past history, present status and expected future trends 2.2 Importance of the RMG sector in relation to Bangladesh labour market is stated with emphasis on manpower and economic impact 2.3 Present and projected future trends and technologies relevant to the sector are summarized 		
Identify major departments of RMG industry	 3.1 Scope and nature of <u>major departments</u> of the RMG sector are identified 3.2 Role and responsibilities of individuals are identified in relation to the department and organization as a whole 3.3 The <u>machines</u> used in different departments are identified 		
List prime export markets	4.1 The types of <u>prime export markets</u> are categorized on the basis of their current and future potential4.2 Export marketing process is interpreted		
Range of Variables			
Variables	Range (may include but not limited to):		
Modes of communication	 1.1 E-mail 1.2 Social Media 1.3 Telephonic Conversation 1.4 Fax 1.5 Meetings 1.6 Video Conference 		

	1.7	Courier
2. Background of RMG	2.1	History of Bangladesh RMG
	2.2	Economy of Bangladesh
	2.3	SWOT analysis on RMG sector
	2.4	Gender dynamics of garments industry in Bangladesh.
	2.5	Wages & efficiency in the garments industry
	2.6	Compliance
	3.1	PDS
	3.2	Store
	3.3	Cutting
	3.4	Embellishment
	3.5	Sewing
a Mi D	3.6	Washing
3. Major Departments	3.7	Finishing
	3.8	Quality
	3.9	Industrial Engineering
	3.10	Production Planning and Control
	3.11	Maintenance
	3.12	Merchandising
	4.1	Single needle machine
	4.2	Double needle Machine
	4.3	Over lock Machine
	4.4	Flat lock Machine
4. Machines	4.5	Feed of the arm Machine
4. Wachines	4.6	Kansai Multi Needle Machine
	4.7	Bar tuck Machine
	4.8	Button Hole Machine
	4.9	Button Stitch Machine
	4.10	Snap Attach Machine
	5.1	American market
5 Prime export markets	5.2	European market
5. Prime export markets	5.3	Asian market
	5.4	Newly explored market

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.

	Assessment required evidence that the candidate:	
1. Critical aspects of	1.1 identified mode Communication	
competency	1.2 interpreted production process	
	1.3 identified prime export markets	
2. Underpinning	2.1 Policies and Guidelines	
knowledge	2.2 History of RMG sector	

	2.3 Trends in the RMG sector				
	2.4 Production process				
	2.5 Different Department in RMG sector				
	2.6 Own roles and responsibilities				
	2.7 Types of prime export markets				
	3.1. Identifying policies and guidelines in RMG sector				
	3.2. Interpreting business communication technique				
3. Underpinning skills	3.3. Interpreting trends of RMG sector				
	3.4. Identifying departments in RMG sector				
	3.5. Identifying machines used in different departments				
	4.1 Commitment to occupational health and safety				
	4.2 Promptness in carrying out activities				
	4.3 Sincere and honest to duties				
4 Underninning ettitudes	4.4 Environmental concerns				
4. Underpinning attitudes	4.5 Eagerness to learn				
	4.6 Tidiness and timeliness				
	Respect for rights of peers and seniors in workplace				
	4.8 Communication with peers and seniors in workplace				
	The following resources must be provided:				
	5.1 Workplace (actual or simulated)				
5 Pasourca implications	Availability of quality tools and materials required				
5. Resource implications	Information on standard operating procedures (SOP),				
	5.4 Fire extinguisher				
	5.5 Uninterrupted power supply				
	Competency should be assessed by:				
6. Methods of assessment	6.1 Written test				
	Demonstration				
	6.3 Oral Questioning				
	7.1 Competency assessment must be done in NSDA accredited				
7 Comtant C	assessment centre				
7. Context of assessment	7.2 Assessment should be done by a NSDA				
	certified/nominated assessor				
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Unit Code and Title	SU-RMGT-02-L3-V1: Perform Measurement and			
Unit Code and Title	Calculations			
Nominal Hours	15 Hours			
Unit Descriptor	This unit covers the knowledge, skills and attitudes required for perform measurements and calculations. It specially includes the selecting measuring devices, obtaining measurements for apparel and performing simple calculations.			
Elements of	Performance Criteria			
Competency	Bold and Underlined terms are elaborated in the Range of Variables.			
Select measuring devices	 1.1 Work instructions are confirmed and applied to the job in hand 1.2 Materials to be measured are identified as per job specifications 1.3 Appropriate measuring devices are selected based on materials to be measured 1.4 Specifications are obtained from relevant documents 1.5 Tolerance and clearance limits are identified and adjusted according to the job requirements 			
Obtain measurements for apparel	 2.1 Accurate measurements are obtained in accordance with job requirements 2.2 Systems of measurements are identified and measurement conversions done as per requirement 2.3 Measurements are confirmed and recorded in the given company format 			
3. Perform simple calculations	 3.1 Simple calculations involving basic operations are carried out 3.2 Other operations are used to complete tasks 3.3 Appropriate formulas for calculating quantities of materials are selected 3.4 Calculations are performed and verified 3.5 Material quantities are calculated and shared with team as per requirement 			
Range of Variables				
Variables	Range (may include but not limited to):			
Measuring device	1.1 Measuring Tape1.2 Steel rule1.3 Calculator1.4 Sets square			
2. Documents	2.1 Technical Manuals 2.2 Specifications			

	2.3 Sketches
	2.4 Charts
	2.5 Photographs
	3.1 Length
3. Measurements	3.2 Width
5. Measurements	3.3 Weight
	3.4 Tolerance
	4.1 Addition
4 Posic operations	4.2 Subtraction
4. Basic operations	4.3 Multiplication
	4.4 Division
5. Other operations	5.1 Fractions
	5.2 Percentages
	5.3 Mixed numbers
	5.4 Conversions
	5.5 Scales
6. Calculations	6.1 Area
	6.2 Volume
	6.3 Circumference
	6.4 CBM
	6.5 Volumetric Weight
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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.

	Assessment required evidence that the candidate:	
	1.1 selected measuring devices based on materials to be	
1. Critical aspects of	measured	
competency	1.2 obtained measurements as per job requirements	
	1.3 performed calculations for quantities of materials	
	1.4 confirmed and recorded measurements as per standard	
	2.1 Information on measuring devices	
2. Underpinning knowledge	2.2 Selection technique of appropriate measuring devices	
	2.3 Measurement and calculation technique for apparel	
	merchandising	
	2.4 Techniques of recording measurements	
	Way to allowance and Tolerance	
	Presentation of data and information	
	2.7 Instructions to use of measuring devices	
3. Underpinning skills	3.1 Identifying measuring devices based on materials to be	
	measured	
	3.2 Obtaining specification of measuring devices from	
	relevant document	
	3.3 Taking measurement according to the job requirements	

	3.4	Identifying tolerance and clearance limits and			
	3.4	adjusting according to the job requirements			
	3.5				
	3.6				
	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. Underpinning attitudes	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			
	The	following resources must be provided:			
	5.1	Workplace (actual or simulated)			
	5.2	Availability of quality tools and materials required			
5. Resource implications	5.3	Information on standard operating procedures (SOP),			
3. Resource implications	5.4	OSH, and other policies and guidelines			
	5.5	Relevant specifications and work instructions			
	5.6	Fire extinguisher			
	5.7	Uninterrupted power supply			
	Con	npetency should be assessed by			
		Demonstration			
6. Methods of assessment	6.2	Oral questioning			
	6.3	Written test			
	7.1	Competency assessment must be done in NSDA accredited			
7. Context of assessment		assessment centre			
	7.2	Assessment should be done by a NSDA			
		certified/nominated assessor			

Unit Code and Title	SU-RMGT-03-L3-V1: Interpret Sketch and		
	Specifications in Manuals		
Nominal Hours	15 Hours		
Unit Descriptor	This unit covers the knowledge, skills and attitude required for interpret sketches and specifications in manuals. It specially includes identifying information from manual, interpreting sketch and specification.		
Elements of	Performance Criteria		
Competency	Bold and Underlined terms are elaborated in the Range of Variables.		
Identify information from manual	 1.1. Appropriate manuals are collected as per sample 1.2. Importance of manuals is recognized 1.3. Required information are collected from manuals 		
Interpret sketch and specifications	 2.1 Relevant sketch and specifications are identified 2.2 Key terms and abbreviations are identified 2.3 Signs and symbols are identified 2.4 Schedules, dimensions, drawings and specifications are interpreted 		
Range of Variables			
Variables	Range (may include but not limited to):		
1. Manuals	 1.1 Buyers' specification manual 1.2 Compliance manual 1.3 Maintenance procedure manual 1.4 Periodic maintenance manual 1.5 Quality manual 1.6 Signs and symbols, instruction manuals 		
2. Sketch	2.1 Technical sketch2.2 Measurement sketch		
3. Specifications	3.1 Product specifications3.2 Performance specifications3.3 Method specifications		
	entic, valid, sufficient, reliable, consistent and recent and meet the version of the Unit of Competency.		
	Assessment required evidence that the candidate:		
Critical aspects of competency	 1.1. collected information from manual as per sample 1.2. identified sketches and specifications as per sample 		
2. Underpinning knowledge	2.1 Themes on various types of RMG manuals 2.2 Units of measurement		

	2.3 Units of conversion		
	2.4 Rules of sketch, drawings and specifications		
3. Underpinning skills	3.1 Recognising importance of manual		
	3.2 Selecting appropriate manuals as per sample		
	3.3 Collecting information from manual as per sample		
	3.4 Interpreting schedules, dimensions, drawings and		
	specifications		
	4.1 Commitment to occupational health and safety		
	4.2 Promptness in carrying out activities		
	4.3 Sincere and honest to duties		
4. Underpinning attitudes	4.4 Environmental concerns		
4. Olderplining attitudes	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		
	The following resources must be provided:		
	5.1 Workplace (actual or simulated)		
	5.2 Availability of quality tools and materials required		
5. Resource implications	5.3 Information on standard operating procedures (SOP),		
3. Resource implications	5.4 OSH, and other policies and guidelines		
	Relevant specifications and work instructions		
	5.6 Fire extinguisher		
	5.7 Uninterrupted power supply		
	Competency should be assessed by		
6. Methods of assessment	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		

Occupation Specific	e Units of	Compet	encies

Hait Cada and Title	OU-RMGT-WSMO-01-L2-V1: Interpret		
Unit Code and Title	Woven Fabrics and Garments		
Nominal Hours	15 Hours		
	This unit covers the knowledge, skills and attitudes required		
II	to interpret woven fabrics and garments.		
Unit Descriptor	It specifically includes interpreting woven fabrics, woven		
	garments and handling procedures of woven fabrics.		
	Performance Criteria		
Elements of Competency	Bold and Underlined terms are elaborated in the Range of		
	Variables.		
1. Interpret woven fabrics	1.1 Woven fabrics are identified		
	1.2 Woven fabrics are interpreted		
	1.3 Properties of woven fabrics are recognized		
2. Interpret woven	2.1. Woven garments are identified		
garments	2.2. Woven garments are interpreted		
3. Interpret handling	3.1 Safety and health issues in handling of woven fabric is		
procedures of woven	interpreted		
fabrics	3.2 Woven fabric is properly handled		
Range of Variables			
Variables	Range (may include but not limited to):		
1. Woven fabrics	1.1 Denim		
	1.2 Poplin		
	1.3 Linen		
	1.4 Flannel		
	1.5 Cord		
	1.6 Gabardine		
	1.7 Taffeta		
	1.8 Georget		
	1.9 Crepe		
2. Properties of woven	2.1 Smoothness		
fabrics	2.2 Flexibility		
	2.3 Elasticity		
	2.4 Hand feel		
3. Woven garments	3.1. Shirt		
	3.2. Pant		
	3.3. Jacket		
	3.4. Skirt		
	3.5. Dress		
4. Safety and health issues	4.1 Exposer to fabric dust		
	4.2 Skin irritation due to chemical		
	4.3 Skin abrasion		

4.4	Eve nose and t	hroat irritation

The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the Unit of Competency.

requirements of the earrent version of the elint of competency.				
	Assessment required evidence that the candidate:			
1. Critical aspects of	1.1 interpreted woven fabrics			
competency	1.2 interpreted woven garments			
	1.3 interpreted handling procedures of woven fabric			
	2.1 Types of woven fabrics			
2 Undersinaine	2.2 Properties of woven fabrics			
2. Underpinning	2.3 Types of woven garments			
knowledge	2.4 Handling procedures of woven fabrics			
	2.5 Safety and health issues			
	3.1 Interpreting woven fabrics			
2 Undersinaine elville	3.2 Recognizing properties of woven fabrics			
3. Underpinning skills	3.3 Interpreting woven garments			
	3.4 Handling procedures of woven fabrics			
	4.1 Commitment to occupational health and safety			
	4.2 Promptness in carrying out activities			
4 Undaminaina attitudas	4.3 Sincere and honest to duties			
4. Underpinning attitudes	4.4 Tidiness and timeliness			
	4.5 Respect for rights of peers and seniors in workplace			
	4.6 Communication with peers and seniors in workplace			
	5.1 Workplace (actual or simulated)			
	5.2 Tools and equipment			
5. Resource implications	5.3 Woven fabrics			
	5.4 Woven garments			
	5.5 Work instruction			
	Competency should be assessed by:			
6. Methods of assessment	6.1 Written test			
o. Wethous of assessment	6.2 Demonstration			
	6.3 Oral questioning			
	7.1 Competency assessment must be done in NSDA			
7. Contant of assessment	accredited assessment centre			
7. Context of assessment	7.2 Assessment should be done by a NSDA			
	certified/nominated assessor			
<u> </u>				

Accreditation Requirements

Unit Code and Title	OU-RMGT-WSMO-02-L2-V1: Prepare for		
	Sewing Operation		
Nominal Hours	35 Hours		
	This unit covers the knowledge, skills, and attitudes required		
	to prepare for sewing operation.		
Unit Descriptor	It specifically includes identifying pattern and garments parts,		
	garments machine, tools and materials, applying the attachments of sewing machine and set up machine for		
	operation.		
	Performance Criteria		
Elements of Competency	Bold and Underlined terms are elaborated in the Range of Variables.		
Identify pattern and	1.1 Types of patterns are interpreted		
garments parts	1.2 Working pattern is identified as per design and		
	measurements		
	1.3 Garments parts and marking area are identified		
	1.4 Bundles are identified as per selected job		
2. Identify machine,	2.1. <u>Machines</u> are identified as per job requirement		
tools and materials	2.2. <u>Tools</u> are identified as per job requirement		
	2.3. <u>Materials</u> are identified as per job requirement		
	2.4. Tools, machine and materials are prepared as per job		
	requirement		
3. Apply the	3.1 <u>Types of attachments</u> of sewing machine are identified		
attachments of	3.2 Attachments of sewing machine are applied as per job		
sewing machine	requirements		
4. Set up machine for	4.1 Machine is cleaned		
operation	4.2 Lubricant is checked as per oil level		
	4.3 <u>Safety guards</u> are checked and used as per job		
	requirement 4.4 Machine parts are checked and adjusted		
	4.5 Type of needles are selected according to materials,		
	sewing manuals		
	4.6 Tension of the stitches are checked and set		
	4.7 Machine is checked to ensure the width of the stitch		
	4.8 Power supply of machine is ensured		
Range of Variables	1 22 2		
Variables	Range (may include but not limited to):		
Types of patterns	1.1. Fabric pattern		
	1.2. Finished pattern		

2. Garments parts	2.1 Shirts
	2.1.1 Front part
	2.1.2 Back part
	2.1.3 Yoke
	2.1.4 Sleeve
	2.1.5 Collar
	2.1.6 Collar band
	2.1.7 Cuff
	2.1.8 Placket
	2.1.9 Pocket
	2.1.10 Epaulet
	2.2 Pants
	2.2.1 Front part
	2.2.2 Back part
	2.2.3 Back yoke
	2.2.4 Pocket
	2.2.5 Seam and facing
	2.2.6 Single fly
	2.2.7 Double fly
	2.2.8 Waist band
	2.2.9 Belt loops
3. Machines	3.1 Single needle lock stitch machine
	3.2 Double needle lock stitch machine
	3.3 Overlock machine
	3.4 Feed of the arm machine
	3.5 Flat lock machine
	3.6 Multi needle chain stitch machine
	3.7 Bar tack machine
	3.8 Button attaching machine
	3.9 Button hole machine
4. Tools	4.1 Scissors
	4.2 Thread cutter
	4.3 Screw driver
	4.4 Tweezers
	4.5 Scale
	4.6 Measurement tape
7 Mart 1	4.7 Seam ripper
5. Materials	5.1 Fabrics
C Trues of -441	5.2 Trims and accessories
6. Types of attachments	6.1. Feed
	6.2. Guide
7 Cofet 1	6.3. Folders
7. Safety guards	7.1 Motor guard

	7.0	Eve award
	7.2	Eye guard
	7.3	Belt guard
	7.4	Needle guard
	7.5	Pully cover
	7.6	Finger guard
	7.7	Rubber mat
8. Machine parts	8.1	Feed dog
	8.2	Needle bar and needle
	8.3	Tension post assembly
	8.4	Thread guide
	8.5	Pressure adjusting screw
	8.6	Throat plate
	8.7	Slide plate
	8.8	Stitch length regulator
	8.9	Thread stands
	8.10	Presser bar
	8.11	Presser foot
9. Types of needles	9.1	Universal
	9.2	Ball point
	9.3	Stretch
	9.4	Jeans/ Denim
	9.5	Sharp
	9.6	Self-threading

The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the Unit of Competency.

	Assessment required evidence that the candidate:	
Critical aspects of competency	 1.1 identified pattern and garments parts 1.2 identified machine, tools and materials 1.3 applied the attachments of sewing machine 1.4 set up machine for operation 	
2. Underpinning knowledge	 2.1 Types of patterns 2.2 Garments parts 2.3 Sewing machine 2.4 Tools and materials 2.5 Types of attachments 2.6 Safety guards 2.7 Machine parts 2.8 Tension of the stitches 2.9 Stitch per inch (SPI) 2.10 Standard operating procedure (SOP) 2.11 Sewing attachments 	

3. Underpinning skills	3.1	Checking safety guards
	3.2	Checking machine parts
	3.3	Checking tension of the stitch
	3.4	Checking sewing attachments
	4.1	Commitment to occupational health and safety
	4.2	Promptness in carrying out activities
	4.3	Sincere and honest to duties
4. Underpinning	4.4	Environmental concerns
attitudes	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
	5.1	Workplace (actual or simulated)
6 D	5.2	Tools and equipment
5. Resource implications	5.3	Fire extinguisher
	5.4	Uninterrupted power supply
	Com	petency should be assessed by:
6. Methods of	6.1	Written test
assessment	6.2	Demonstration
	6.3	Oral questioning
	7.1	Competency assessment must be done in NSDA
		accredited assessment centre
7. Context of assessment	7.2	Assessment should be done by a NSDA
		certified/nominated assessor
	<u> </u>	

Accreditation Requirements

Unit Code and Title	OU-RMGT-WSMO-03-L2-V1: Operate Industrial Sewing Machine		
Nominal Hours	100 Hours		
	This unit covers the knowledge, skills, and attitudes required to operate industrial sewing machine.		
Unit Descriptor	It specifically includes following safety procedure at workplace, operating single needle machine, double needle machine, overlock machine, feed of the arm machine, flat lock machine, multi needle chain stitch machine and maintaining and cleaning workplace.		
	Performance Criteria		
Elements of Competency	Bold and Underlined terms are elaborated in the Range of		
	Variables.		
1. Follow safety	1.1 Occupational safety and health (OHS) is followed and		
procedure at	personal protective equipment (PPE) is used as per job		
workplace	requirements		
	1.2 Safety guards are checked as per job requirements		
	1.3 Machine is cleaned and checked as per safety procedures		
2. Operate single needle	2.1. Single needle machine is started and checked for normal		
machine	operation		
	2.2. Necessary adjustments are made to confirm to workplace		
	requirements		
	2.3. Woven fabric are sewed using single needle machine as per design and style requirement		
	2.4. Quality of stitch is maintained as per sample		
	2.5. Unusual operating conditions are observed during operation		
	and reported to authority		
3. Operate double needle	3.1. Double needle machine is started and checked for normal		
machine	operation		
	3.2. Necessary adjustments are made to confirm to workplace		
	requirements		
	3.3. Woven fabric are sewed using double needle machine as per		
	design and style requirement		
	3.4. Quality of stitch is maintained as per sample		
	3.5. Unusual operating conditions are observed during operation		
	and reported to authority		
4. Operate overlock	4.1. Overlock machine is started and checked for normal operation		
machine	4.2. Necessary adjustments are made to confirm to workplace		
	requirements		
	4.3. Woven fabric are sewed using overlock machine as per design		
	and style requirement		

	4.4. O114		
	4.4. Quality of stitch is maintained as per sample		
	4.5. Unusual operating conditions are observed during operation		
	and reported to authority		
5. Operate feed of the arm machine	5.1. Feed of the arm machine is started and checked for normal operation		
	5.2. Necessary adjustments are made to confirm to workplace		
	requirements		
	5.3. Woven fabric are sewed using feed of the arm machine as per design and style requirement		
	5.4. Quality of stitch is maintained as per sample		
	5.5. Unusual operating conditions are observed during operation		
	and reported to authority		
6. Operate flat lock	6.1. Flat lock machine is started and checked for normal operation		
machine	6.2. Necessary adjustments are made to confirm to workplace requirements		
	6.3. Woven fabric are sewed using flat lock machine as per design		
	and style requirement		
	6.4. Quality of stitch is maintained as per sample		
	6.5. Unusual operating conditions are observed during operation		
	and reported to authority		
7. Operate multi needle	7.1. Multi needle chain stitch machine is started and checked for		
chain stitch machine	normal operation		
	7.2. Necessary adjustments are made to confirm to workplace		
	requirements		
	7.3. Woven fabric are sewed using multi needle chain stitch		
	machine as per design and style requirement		
	7.4. Quality of stitch is maintained as per sample		
	7.5. Unusual operating conditions are observed during operation		
	and reported to authority		
8. Maintain and clean	8.1. Machine is switched off		
workplace	8.2. Waste materials are disposed as per workplace standard		
	operating procedure (SOP)		
	8.3. Machines are cleaned as per manufacturer instruction		
Range of Variables			
Variables	Range (may include but not limited to):		
Personal protective	1.1 Mask		
equipment (PPE)	1.2 Safety shoes		
	1.3 Apron		
	1.4 Hand gloves		
	1.5 Scarf		
2. Single needle machine	2.1 Lock stitch machine		
	2.2 Chain stitch machine		

3. Unusual operating	3.1	Unusual machine noise
condition	3.2	Excess oil/ lubricant
	3.3	Unusual needle breakage
	3.4	Irregular stitch tension

The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the Unit of Competency.

requirements of the entrent version of the office of competency.			
		Asse	essment required evidence that the candidate:
		1.1	followed safety procedure at workplace
		1.2	operated single needle machine
1.	Critical aspects of	1.3	operated double needle machine
1.	competency	1.4	operated overlock machine
	competency	1.5	operated feed of the arm machine
		1.6	operated flat lock machine
		1.7	operated multi needle chain stitch machine
		1.8	maintained and cleaned workplace
		2.1	Size and type of needle used in sewing of woven fabrics
		2.2	Procedure and techniques of winding and setting of bobbins
			in accordance with machine manufacture's requirements
2	Undominnina	2.3	Machine threading procedure and techniques
2.	Underpinning	2.4	Operation and maintenance of single needle, overlock,
	knowledge		flatlock machine
		2.5	Sewing methods and techniques on woven materials using
			different types of woven machines
		2.6	Machine & workplace cleaning procedures
		3.1	Checking safety guards
		3.2	Interpreting operating conditions during operation
3.	Underpinning skills	3.3	Cleaning and checking sewing machine
		3.4	Interpreting sewing procedure of woven fabric
		3.5	Operating sewing machine
		4.1	Commitment to occupational health and safety
		4.2	Promptness in carrying out activities
		4.3	Sincere and honest to duties
4.	Underpinning	4.4	Environmental concerns
	attitudes	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
		5.1	Workplace (simulated or actual)
5.	Resource implications	5.2	Tools, equipment
<i>J</i> .		5.3	Sewing machine
		5.4	Availability of materials

	Competency should be assessed by:	
6. Methods of assessment	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

OU-RMGT-WSMO-04-L2-V1: Make Pants		
115 Hours		
This unit covers the knowledge, skills, and attitudes required to make pants. It specifically includes following safety procedures at workplace, interpreting process of making pants, performing stitch operation for pants, checking stitch quality of pants and maintaining and cleaning workplace.		
Performance Criteria Bold and Underlined terms are elaborated in the Range of Variables.		
 1.1. Occupational safety and health (OHS) is followed and personal protective equipment (PPE) is used as per job requirements 1.2. Safety guards are checked as per job requirements 		
 2.1. Parts of pants are identified as per job requirements 2.2. Processes of making pants are interpreted as per job requirements 		
2.3. Stitch operation for pants are interpreted as per SOP2.4. Assembling operation of pants parts are interpreted as per SOP2.5. Individual capacity is identified based on Standard Minute Value (SMV)		
2.6. Production target and efficiency are interpreted		
 3.1. <u>Tools and materials</u> are selected and collected 3.2. Materials are arranged as per job requirement 3.3. Stitch operations of front part are carried out as per job 		
requirements 3.4. Stitch operations of back part are carried out as per job requirements 3.5. Assembling operation of pant parts are performed 3.6. Expans through are trimmed as per job requirements		
3.6. Excess threads are trimmed as per job requirements4.1. Stitch quality is checked as per sample		
 4.1. Stitch quality is elected as per sample 4.2. <u>Stitch defects</u> are identified and rectified 4.3. Quality is checked as per standard 		
5.1. Machine is switched off		
5.2. Waste materials are disposed as per workplace standard operating procedure (SOP)5.3. Machines are cleaned as per manufacturer instruction		
5.5. Machines are created as per manufacturer instruction		
Range (may include but not limited to):		
1.1 Front part 1.2 Back part		

	1.3	Back yoke
	1.4	Pocket
	1.5	Seam and facing
	1.6	Single fly
	1.7	Double fly
	1.8	Waist band
	1.9	Belt loops
2. Tools and materials	Tools	
	2.1.	Scissors
	2.2.	Thread cutter
	2.3.	Screw driver
	2.4.	Tweezers
	2.5.	Scale
	2.6.	Measurement tape
	2.7.	Seam ripper
	Mater	ials
	2.8.	Fabrics
	2.9.	Trims and Accessories
3. Stitch defects	3.1	Broken stitch
	3.2	Puckering
	3.3	Loose stitch
	3.4	Wrinkles
	3.5	Skip stitch
	3.6	Down stitch
	3.7	Floating stitch
	3.8	Uneven stitch
	3.9	Slipped stitch
	3.10	Stagger stitch
Evidence Cuide		

The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the Unit of Competency.

		·			
		Assessment required evidence that the candidate:			
		1.1 followed safety procedure at workplace			
1. C	Critical aspects of	1.2 interpreted process of making pants			
	competency	1.3 performed stitch operation for pants			
		1.4 checked stitch quality of pants			
		1.5 maintained and cleaned workplace			
	2. Underpinning	2.1 Safety guards			
		2.2 Tools and materials			
		2.3 Pant making process			
۷.		2.4 Stitching operation			
	knowledge	2.5 Assembling operations of pant			
		2.6 Stitching quality			
		2.7 Stitch defects			
		•			

		2.8 Standard minute value (SMV)			
		2.9 Production target and efficiency			
		2.10 Material handling procedure			
		3.1 Checking safety guards			
		3.2 Carrying out stitching operations of front part			
3.	Underpinning skills	3.3 Carrying out stitching operations of back part			
3.	Onderphining skins	3.4 Performing assembling operation of pant parts			
		3.5 Checking stitch quality			
		3.6 Checking quality			
		4.1 Commitment to occupational health and safety			
		4.2 Promptness in carrying out activities			
4.	Underpinning	4.3 Sincere and honest to duties			
	attitudes	4.4 Environmental concerns			
		4.5 Eagerness to learn			
		4.6 Tidiness and timeliness			
		5.1 Workplace (simulated or actual)			
5.	Resource	5.2 Safety guards			
	implications	5.3 Sewing machine			
		5.4 Tools and materials			
		Competency should be assessed by:			
6.	Methods of	6.1 Written test			
	assessment	6.2 Demonstration			
		6.3 Oral questioning			
		7.1 Competency assessment must be done in NSDA accredited			
7.	Context of	assessment centre			
	assessment	7.2 Assessment should be done by a NSDA certified/nominated			
		assessor			

Accreditation Requirements

Development of Competency Standard

The Competency Standards for National Skills Certificate in Woven Sewing Machine Operation, Level-2 is developed by SEIP on 6^{th} September 2016.

List of Members

1.	Mr. Durlov Chandra Kha, Senior Instructor, Garments, BGTTC, Dhaka.	Member
2.	Mr. Yusuf Hossain, Chief Instructor (Industry Trainer), BGMEA Training Institute.	Member
3.	Mr. Md Shah Alam Majumder, Specialist (Course Accreditation), BTEB	Member
4.	Mr. Syed Nasir Ershad, AEPD, SEIP	Member
5.	Mr. Ahsan Habib, TVET Specialist, SEIP	Member
6.	Md. Mohiuzzaman, Course Specialist, SEIP	Member

Validation of Competency Standard

The Competency Standards for National Skills Certificate in Woven Sewing Machine Operation, Level-2 is validated by NSDA on 12th September 2022.

List of Members

Sl No	Name and Address	Position in the committee	Signature
1.	Mr. Mohammad Nasir, Chairperson, RTISC	Chairperson	
2.	Md. Aminul Islam Bulbul, Asst Manager (IE), Manta Apparel Limited, Dhaka, Cell: 01725691582, Email: aminul.bulbul_05@yahoo.com	Member	
3.	Md. Rafiqul Islam, Deputy Manager (IE), Production Planning & Coordination Division, Envoy Group, Cell: 01717461469,Email: rafiq.mbstu007@gmail.com	Member	
4.	Md. Enamul Kabir, Assistant Professor, Textile Engine Department, Primeasia University, Cell: +8801915601700, Email: rana1050@gmail.com	Member	
5.	Razib Chakrabarty, IE manager, Russel Garments, Cell: +8801777790168, Email: rajib.ie2@osmangroupbd.com, razibierg@gmail.com	Member	
6.	Md. Farid Uddin, Executive Sewing, Shanta Industries Ltd. Cell: 01733451875, Email: faridkishorgonj@gmail.com	Member	
7.	Sharif Nowaz, Curriculum Development & Training Executive, Mobile: 01733459745, Email: sharifnowaz@gmail.com	Member	
8.	Engr. Abdur Razzaque, Specialist-01, NSDA, Mobile: +88 01742734313, Email: razzaque159@gmail.com	Member	
9.	Md. Amir Hossain, Process Expert, NSDA, Mobile: 01631670445, Email: razib.consultant@yahoo.com	Member	

Workshop Minutes

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

Level: 10-11, Biniyog Bhaban, E-6 / B, Agargaon, Sher-E-Bangla Nagar Dhaka-1207, Bangladesh.

Email: ec@nsda.gov.bd
Website: www.nsda.gov.bd

Minutes of the Competency Standard Validation Workshop on "Woven Sewing Machine Operation" Occupation.

Chairman	: Mr. Mohammed Nasir, Chairman, RT, ISC
Date	: 12 th September 2022
Time	: 8:00 am - 3:00 pm
Place	: ISC Conference Room, NSDA, Biniyog Bhaban, Agargaon, Dhaka-1207

The Chairman inaugurated the workshop by welcoming the expert participants attended in the workshop. He urges the participants to share their expert opinion to make the standard effective, job market responsive and updated one. During the day-long workshop, the competency standard of "Woven Sewing Machine Operation" occupation was reviewed, modified and finalized in detail. The following changes and modification were made to validate and finalize the competency standard.

Serial No.	Content of was appropriate		vas	What actions have been taken if not appropriate?
		Yes	No.	oppp
1.	Name and level of occupation	Yes		The name of the occupation as "Woven Sewing Machine Operation"
2.	Nominal Hour	Yes		360 hours
3.	Unit of Competency		No.	Following changes are made: • Carry out machine performance is merged to other unit of competency
4.	Element		No.	Total 05 elements are edited03 element is added or deleted
5.	Performance Criteria		No.	Total 15 performance criteria edited and finetuned as per elements
6.	Variables		No.	23 new variables are added
7.	Critical Aspect of Competence		No.	Necessary changes have been made in the critical aspect of competency according to above changes.
8.	Underpinning knowledge		No.	Necessary changes have been made in the underpinning knowledge according to above changes.
9.	Underpinning Skills		No.	Necessary addition, changes and finetuning have been made.
10.	Attitude	Yes		
11.	Resources	Yes		
12.	Assessment methods	Yes		

13. Others	 The nominal hours of the units of competencies have been rescheduled for content consideration. Overall, the occupation has been included in Level-2 according to NSQF (BNQF 1-6).
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Through the above activities, the Competency Standard has been finalized and validated as "Woven Sewing Machine Operation, Level-2"

Chairman

Committee on Standard and Curriculum Validation,

Chairman – RMG & TEXTILE ISC