



COMPETENCY STANDARD
FOR
GRAPHIC DESIGN
(ICT Sector)

Level: 3

Competency Standard Code: ICTCS0004L3V1

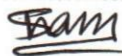
এনএসডিএ এর কার্যনির্বাহী কমিটির
২২/০২/১১ তারিখে অনুষ্ঠিত ৫৩৩ সভায় অনুমোদিত

National Skills Development Authority
Prime Minister's Office, Bangladesh

Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

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Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Introduction

The National Skills Development Authority (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 skill 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 programme. "**Graphic Design**" is selected as one of the priority occupations of **Information and Communication Technology** 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 TVET. Trainees who successfully pass the assessment will receive a qualification in the National Technical and Vocational Qualification Framework (NTVQF) 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.



Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

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 **Information and Communication Technology** 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



Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)

Principal

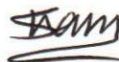
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Competency Standards for Graphic Design, Level-3 in ICT Sector

NTVQF with Job Classifications

NTVQF LEVELS	EDUCATION SECTORS			Job Classification
	Pre-Vocation Education	Vocational Education	Technical Education	
NTVQF 6			Diploma in engineering or equivalent	Middle Level Manager /Sub Assistant Engr. etc.
NTVQF 5		National Skill Certificate 5 (NSC 5)		Highly Skilled Worker / Supervisor
NTVQF 4		National Skill Certificate 4 (NSC 4)		Skilled Worker
NTVQF 3		National Skill Certificate 3 (NSC 3)		Semi-Skilled Worker
NTVQF 2		National Skill Certificate 2 (NSC 2)		Basic Skilled Worker
NTVQF 1		National Skill Certificate 1 (NSC 1)		Basic Worker
Pre-Voc 2	National Pre-Vocation Certificate 2 (NPVC 2)			Pre-Vocation Trainee
Pre-Voc 1	National Pre-Vocation Certificate 1 (NPVC 1)			Pre-Vocation Trainee



Engr. B. M. Shariful Islam
 Deputy Director (Skills Standard)
 Principal
 National Skills Development Authority (NSDA)
 Prime Minister's Office, Dhaka

NTVQF Level Descriptors

NTVQF Level	Knowledge	Skill	Responsibility	Job Class.
6	<ul style="list-style-type: none"> Comprehensive actual and theoretical knowledge within a specific study area with an awareness of the limits of that knowledge 	<ul style="list-style-type: none"> Specialised and restricted range of cognitive and practical skills required to provide leadership in the development of creative solutions to defined problems 	<ul style="list-style-type: none"> Manage a team or teams in workplace activities where there is unpredictable change Identify and design learning programs to develop performance of team members 	Supervisor / Middle Level Manager / Sub Assistant Engr. etc.
5	<ul style="list-style-type: none"> Very broad knowledge of the underlying, concepts, principles, and processes in a specific study area 	<ul style="list-style-type: none"> Very broad range of cognitive and practical skills required to generate solutions to specific problems in one or more study areas. 	<ul style="list-style-type: none"> Take overall responsibility for completion of tasks in work or study Apply past experiences in solving similar problems 	Highly Skilled Worker / Supervisor
4	<ul style="list-style-type: none"> Broad knowledge of the underlying, concepts, principles, and processes in a specific study area 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Take responsibility, within reason, for completion of tasks in work or study Apply past experiences in solving similar problems 	Skilled Worker
3	<ul style="list-style-type: none"> Moderately broad knowledge in a specific study area. 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Work or study under supervision with some autonomy 	Semi-Skilled Worker
2	<ul style="list-style-type: none"> Basic underpinning knowledge in a specific study area. 	<ul style="list-style-type: none"> Basic skills required to carry out simple tasks 	<ul style="list-style-type: none"> Work or study under indirect supervision in a structured context 	Basic Skilled Worker
1	<ul style="list-style-type: none"> Elementary understanding of the underpinning knowledge in a specific study area. 	<ul style="list-style-type: none"> Limited range of skills required to carry out simple tasks 	<ul style="list-style-type: none"> Work or study under direct supervision in a structured context 	Basic Worker
Pre-Voc 2	<ul style="list-style-type: none"> Limited general knowledge 	<ul style="list-style-type: none"> Very limited range of skills and use of tools required to carry out simple tasks 	<ul style="list-style-type: none"> Work or study under direct supervision in a well-defined, structured context. 	Pre-Vocation Trainee
Pre-Voc 1	<ul style="list-style-type: none"> Extremely limited general knowledge 	<ul style="list-style-type: none"> Minimal range of skills required to carry out simple tasks 	<ul style="list-style-type: none"> Simple work or study exercises, under direct supervision in a clear, well defined structured context 	Pre-Vocation Trainee

Signature

Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

List of Abbreviations

NSDA - National Skills Development Authority

CS – Competency Standard

ILO – International Labor Organization

ISC – Industry Skills Council

NPVC – National Pre-Vocation Certificate

NTVQF – National Technical and Vocational Qualifications Framework

SCVC – Standards and Curriculum Validation Committee

TVET – Technical Vocational Education and Training

UoC – Unit of Competency

STP – Skills Training Provider

OSH – Occupational Safety and Health

PPE – Personal Protective Equipment

SOP – Standard Operating Procedures



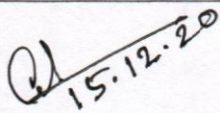
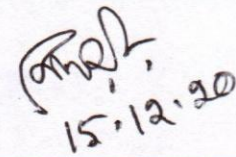
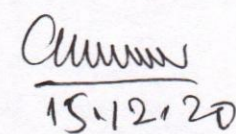
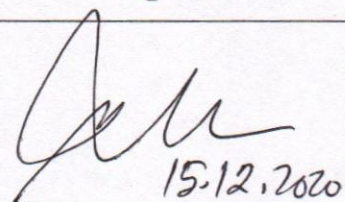
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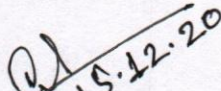
Deputy Director (Skills Standard)
Principal

National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

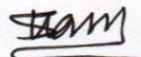
Approval of Competency Standard

Members of the Approval Committee:

Member	Signature
Dulal Krishna Saha Executive Chairman (Secretary) National Skills Development Authority (NSDA)	 15.12.20
Mohammad Rezaul Karim Member (Skills Standard & Certification) Additional Secretary National Skills Development Authority (NSDA)	 15.12.20
Md. Nurul Amin Member (Admin & Finance) Joint Secretary National Skills Development Authority (NSDA)	 15.12.20
Alif Rudaba Member (Planning & Research) and Member (Coordination & Evaluation) Joint Secretary National Skills Development Authority (NSDA)	 15.12.2020


15.12.20

Dulal Krishna Saha
Executive Chairman (Secretary)
National Skills Development Authority (NSDA)
Date:


Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Competency Standards for Graphic Design, Level –3 in ICT Sector Course Structure

SL	Unit Code and Title	UoC Level	Nominal Hours
Generic Competencies			30
1	GU002L2V1	Apply Occupational Safety and Health (OSH) Practices at Workplace	2 15
2	GU005L2V1	Carry out workplace interaction in English	3 15
Sector Specific Competencies			70
3	SUICT001L2V1	Operate a Personal Computer and Use Application programs	2 15
4	SUICT002L2V1	Operate office application software	2 25
5	SUICT003L3V1	Access Information using Internet and electronic mail	3 15
6	SUICT004L3V1	Comply to Ethical Standards in IT Workplace	3 15
Occupation Specific Competencies			260
7	OUGD001L3V1	Apply Graphic Design Concepts and Guidelines	3 40
8	OUGD002L3V1	Create professional designs using Illustration software.	3 60
9	OUGD003L3V1	Separate and compose Images	3 60
10	OUGD004L3V1	Create Mock Up and print	3 40
11	OUGD005L3V1	Develop materials for output	3 60
Total Duration (Hours)			360


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 Deputy Director (Skills Standard)
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 National Skills Development Authority (NSDA)
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Units & Elements at a glance

Generic Competencies

Code	Unit of Competency	Elements of Competency	Nominal Hours
GU002L2V1	Apply Occupational Safety and Health (OSH) Practices at Workplace	<ol style="list-style-type: none"> 1. Identify, control and report OSH hazards 2. Conduct work safely 3. Follow emergency response procedures 4. Maintain and improve health and safety in the workplace 	15
GU005L2V1	Carry out workplace interaction in English	<ol style="list-style-type: none"> 1. Interpret workplace communication and etiquette 2. Read and Understand Workplace Documents 3. Participate in workplace meetings and discussions 4. Practice professional ethics at workplace 	15



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 National Skills Development Authority (NSDA)
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Sector Specific Competencies

Code	Unit of Competency	1. Elements of Competency	Nominal Hours
SUICT001L2V1	Operate a Personal Computer and Use Application programs	<ol style="list-style-type: none"> 1. Start computer 2. Access basic system information 3. Work with files and folders 4. Use application programs 5. Print documents 6. Shut down computer 	15
SUICT002L2V1	Operate office application software	<ol style="list-style-type: none"> 1. Operate computer 2. Install application software 3. Use word processor to prepare/create documents 4. Use spreadsheet to create /prepare worksheets 5. Use presentation software to create / prepare presentation 6. Print a document 	25
SUICT003L3V1	Access Information using Internet and electronic mail	<ol style="list-style-type: none"> 1. Access resources from internet 2. Use and manage Electronic mail 3. Use audio/video tools for information transfer 	15
SUICT004L3V1	Comply to Ethical Standards in IT Workplace	<ol style="list-style-type: none"> 1. Uphold the requirements of clients 2. Deliver quality products and services 3. Maintain professionalism at workplace 4. Maintain workplace code of conduct. 	15

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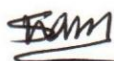
Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)
Principal

National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

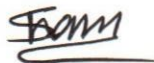
Occupation Specific Competencies

Code	Unit of Competency	Elements of Competency	Nominal Hours
OUGD001L3V1	Apply Graphic Design Concepts and Guidelines	<ol style="list-style-type: none"> 1. Interpret fundamentals of graphic design 2. Work with image 3. Identify image standards 4. Create basic designs 5. Identify career opportunities in the graphic design sector 6. Interpret Online Market places 	40
OUGD002L3V1	Create professional designs using Illustration software.	<ol style="list-style-type: none"> 1. Prepare for design work 2. Create Design 3. Review and Finalize design works 	60
OUGD003L3V1	Separate and compose Images	<ol style="list-style-type: none"> 1. Separate Images 2. Create a composition 3. Retouch Image 4. Apply color correction 5. Apply Effect 6. Evaluate own work 	60
OUGD004L3V1	Create Mock Up and print	<ol style="list-style-type: none"> 1. Prepare the work environment 2. Create mock up 3. Print draft 	40
OUGD005L3V1	Develop materials for output	<ol style="list-style-type: none"> 1. Verify design work 2. Prepare output template 3. Prepare for final output 	60



Engr. B. M. Shariful Islam
 Deputy Director (Skills Standard)
 Principal
 National Skills Development Authority (NSDA)
 Prime Minister's Office, Dhaka

Generic Competencies



Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Unit Code and Title	GU002L2V1 Apply OSH Practices in the Workplace
Nominal Hours	15 Hours
Unit Descriptor	This unit covers the knowledge, skills and attitudes required to apply OSH practices in the workplace. It specifically includes – identify, control and report OSH hazards; conduct work safely; follow emergency response procedures; and maintain and improve health and safety in the workplace.
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables Training Components
1. Identify, control and report OSH hazards	<p>1.1 Immediate work area is routinely checked for OSH hazards prior to commencing and during work</p> <p>1.2 <u>Hazards</u> and unacceptable performance are identified and corrective action is taken within the level of responsibility</p> <p>1.3 OSH hazards and incidents are reported to appropriate personnel according to workplace procedures</p> <p>1.4 Safety Signs and symbols are identified and followed</p>
2. Conduct work safely	<p>2.1 OSH practices are applied in the workplace</p> <p>2.2 Appropriate <u>Personal Protective Equipment (PPE)</u> is selected and worn</p> <p>2.3 Personal hygiene is maintained.</p>
3. Follow emergency response procedures	<p>3.1 Emergency situations are identified and reported according to workplace reporting requirements</p> <p>3.2 Emergency procedures are followed as appropriate to the nature of the emergency and according to workplace procedures</p> <p>3.3 <u>Workplace procedures</u> for dealing with accidents, fires and emergencies are followed whenever necessary within scope of responsibilities</p>
4. Maintain and improve health and safety in the workplace	<p>4.1 Risks are identified and appropriate control measures are implemented in the work area</p> <p>4.2 Recommendations arising from risk assessments are implemented within level of responsibility</p> <p>4.3 Opportunities for improving OSH performance are identified and raised with relevant personnel</p> <p>4.4 Safety records according to <u>company policies</u> are maintained</p>
Range of Variables	

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Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)
Principal

National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Variable	Range (may include but not limited to):
1. Hazards	1.1 OSH incidents include near misses, injuries, illnesses and property damage, noise, handling hazardous substances, other hazards 1.2 Working with and near moving equipment/load shifting equipment 1.3 Broken or damaged equipment or materials
2. Personal Protective Equipment (PPE)	2.1 Goggles 2.2 Ear muffs 2.3 Ear plugs 2.4 Gloves 2.5 Clothing 2.6 Apron 2.7 Helmet 2.8 Boots
3. Workplace procedures	3.1 OSH system and related documentation including policies and procedures 3.2 Standard Operating Procedures (SOPs) 3.3 Information on hazards and the work process, hazard alerts, safety signs and symbols 3.4 Labels 3.5 Material Safety Data Sheets (MSDSs) and manufacturers' advice
4. Company policies	4.1 Job-related Standard Operating Procedures (SOPs) 4.2 OSH-specific procedures. 4.3 Examples of OSH procedures include consultation and participation, emergency response,
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 identified, controlled and reported OSH hazards 1.2 followed work safety 1.3 followed emergency response procedures. 1.4 maintained and improved health and safety in the workplace
2. Underpinning knowledge	2.1 Personal protective equipment - Hand gloves, safety shoes, safety goggles, masks, apron 2.2 Identification of tools and equipment 2.3 Hazardous events 2.4 Tools, equipment, machinery and relevant accessories 2.5 Communication 2.6 Job roles, responsibilities and compliance

	2.7 Workplace laws
3. Underpinning skill	3.1 Using appropriate PPE 3.2 Identifying tools and equipment 3.3 Taking safety precautions and responding to different hazardous situations 3.4 Operating and using tools, equipment, machinery and accessories properly as per SOP (Company Standards) 3.5 Communicating with peers and supervisors 3.6 Applying OSH practices in the workplace
4. Required attitude	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 implication	The following resources must be provided: 5.1 Relevant tools, equipment, computer, software and facilities needed to perform the activities. 5.2 Required learning materials.
6. Methods of assessment	6.1 Written Test 6.2 Demonstration 6.3 Oral Questioning 6.4 Portfolio
7. Context of assessment	7.1 Competency assessment must be done in NSDA Accredited Assessment center 7.2 Assessment should be done by 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 any NTVQF qualification. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.


Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Unit Code and Title	GU005L3V1: Carryout Workplace Interaction in English
Nominal Hours	15 Hours
Unit Descriptor	This unit covers the knowledge, skills and attitudes required to carry out workplace interaction. It specifically includes – interpreting workplace communication and etiquette; reading and understand workplace documents; participating in workplace meetings and discussions; and practicing professional ethics at workplace.
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables Training Components
1. Interpret workplace communication and etiquette	<p>1.1 Workplace code of conducts are interpreted as per organizational guidelines</p> <p>1.2 Appropriate lines of communication are maintained with supervisors and colleagues</p> <p>1.3 Workplace interactions are conducted in a <u>courteous manner</u> to gather and convey information</p> <p>1.4 Questions about routine <u>workplace procedures and matters</u> are asked and responded as required</p>
2. Read and Understand Workplace Documents	<p>2.1 Workplace documents are interpreted as per standard.</p> <p>2.2 Assistance is taken to aid comprehension when required from peers / supervisors</p> <p>2.3 Visual information / symbols / signage's are understood and followed</p> <p>2.4 Specific and relevant information are accessed from <u>appropriate sources</u></p> <p>2.5 Appropriate medium is used to transfer information and ideas</p>
3. Participate in workplace meetings and discussions	<p>3.1 Team meetings are attended on time and followed meeting procedures and etiquette</p> <p>3.2 Own opinions are expressed and listened to those of others without interruption</p> <p>3.3 Inputs are provided consistent with the meeting purpose and interpreted and implemented meeting outcomes</p>
4. Practice professional ethics at workplace	<p>4.1 Responsibilities as a team member are demonstrated and kept promises and commitments made to others</p> <p>4.2 Tasks are performed in accordance with workplace procedures</p> <p>4.3 Confidentiality is respected and maintained</p> <p>4.4 Situations and actions considered inappropriate or which present a conflict of interest are avoided</p>

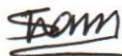
Range of Variables	
Variable	Range (may include but not limited to):
1. Courteous Manner	1.1 Effective questioning 1.2 Active listening 1.3 Speaking skills
2. Workplace Procedures and Matters	2.1 Notes 2.2 Agenda 2.3 Simple reports such as progress and incident reports 2.4 Job sheets 2.5 Operational manuals 2.6 Brochures and promotional material 2.7 Visual and graphic materials 2.8 Standards 2.9 OSH information 2.10 Signs
3. Appropriate Sources	3.1 HR Department 3.2 Managers 3.3 Supervisors
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: <ol style="list-style-type: none"> 1.1 followed workplace code of conducts is as per organizational guidelines 1.2 interpreted workplace documents as per standard 1.3 interpreted workplace instructions and symbols 1.4 interpreted and implemented meeting outcomes
2. Underpinning Knowledge	<ol style="list-style-type: none"> 2.1 Workplace communication and etiquette 2.2 Workplace documents, signs and symbols 2.3 Meeting procedure and etiquette
3. Underpinning Skills	<ol style="list-style-type: none"> 3.1 Demonstrating performance of workplace communication and etiquette 3.2 Following workplace instructions and symbol 3.3 Following workplace code of conducts is as per organizational guidelines 3.4 Interpreting workplace documents as per standard 3.5 Interpreting and implementing meeting outcomes


Engr. B. M. Shariful Islam
 Deputy Director (Skills Standard)
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 National Skills Development Authority (NSDA)
 Prime Minister's Office, Dhaka

4. Underpinning Attitudes	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: 5.1 Relevant tools, Equipment, software and facilities needed to perform the activities. 5.2 Required learning materials.
6. Methods of Assessment	6.1 Written Test 6.2 Demonstration 6.3 Oral Questioning 6.4 Portfolio
7. Context of Assessment	7.1 Competency assessment must be done in NSDA accredited center. 7.2 Assessment should be done by 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>	

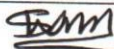

Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Sector Specific Competencies



Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Unit Code and Title	SUICT001L3V1: Operate a Personal Computer and Use Applications Programs
Nominal Hours	15 Hours
Unit Descriptor	This unit covers the knowledge, skills and attitudes required to operate a personal computer and use applications programs. It specifically includes starting computer, accessing basic system information, working with files and folders, using application programs, printing documents and shutting down computer.
Elements of Competency	Performance Criteria <u>Bold and Underlined</u> terms are elaborated in the Range of Variables Training Components
1. Start computer	<ul style="list-style-type: none"> 1.1 Safe workplace practices are observed according to IT workplace guideline. 1.2 Computer is checked for proper connection position and usability. 1.3 <u>Peripheral devices</u> are checked for correct connection, position and usability. 1.4 Power of computer and other peripheral devices are switched on.
2. Access basic system information	<ul style="list-style-type: none"> 2.1 User name and password as prompted and note access, privacy, security and related conditions of use displayed on introductory screens are inserted. 2.2 PC desktop environment/Graphical User Interface (GUI) settings is arranged and customized. 2.3 The <u>operating system</u> information is identified. 2.4 System configuration and application versions in operation are navigated.
3. Work with files and folders	<ul style="list-style-type: none"> 3.1 Desktop environment is customized. 3.2 Basic directory and sub-directories are created and named. 3.3 Attributes of directories are identified. 3.4 Files for user and organization requirements are created and organized 3.5 Data are entered into the desired office application in accordance with work requirements 3.6 Files are copied and saved to available <u>data storage devices</u>.
4. Use application programs	<ul style="list-style-type: none"> 4.1 Calculator program is used 4.2 Notepad is used 4.3 WordPad is used 4.4 Snipping Tool is applied 4.5 Paint is used 4.6 Sticky Note is used




Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

5. Print documents	5.1 Printer settings, if required, are entered into the program 5.2 Default printer is changed where necessary 5.3 Print preview option is accessed to effect printing of documents 5.4 Adjust document print output where necessary 5.5 Printout is taken
6. Shut down computer	6.1 All opened files/documents are exited. 6.2 All opened application programs are logged out in accordance with standard application procedure. 6.3 Personal computer is shut down in accordance with standard shut down procedure. 6.4 The computer and other peripherals are switched off and switched off power supply in accordance with standard procedure.

Range of Variables

Variables	Range (may include but not limited to):
1. Peripheral devices	1.1 Input Devices 1.1.1 keyboard, MIDI keyboard 1.1.2 mouse 1.1.3 touch screen 1.1.4 Digitizer tablet 1.1.5 joystick 1.1.6 scanner 1.1.7 digital camera 1.1.8 video camera 1.1.9 microphone 1.2 Output Devices 1.2.1 monitor 1.2.2 projector 1.2.3 TV screen 1.2.4 printer 1.2.5 plotter 1.2.6 speakers 1.3 Both input/output 1.3.1 external hard drives 1.3.2 USB drives 1.3.3 media card readers 1.3.4 digital camcorders 1.3.5 digital mixers 1.3.6 MIDI equipment
2. Operating system	2.1 Microsoft Windows 2.2 Apple Mac OS 2.3 Ubuntu Linux 2.4 Google android 2.5 iOS



Engr. B. M. Shariful Islam
 Deputy Director (Skills Standard)
 Principal
 National Skills Development Authority (NSDA)
 Prime Minister's Office, Dhaka

3. Data storage devices	<ul style="list-style-type: none"> 3.1 Random Access Memory (RAM) 3.2 Hard disk 3.3 CD/DVD 3.4 Flash drive 3.5 External hard disk
<p>Evidence Guide</p> <p>The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the Unit of Competency</p>	
1. Critical aspects of competency	<p>Assessment required evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 arranged, customized and manipulated PC desktop environment/graphical user interface (GUI) settings. 1.2 selected, opened and closed desktop icons to access application programs 1.3 entered data into the desired office application in accordance with work requirements 1.4 entered print command to effect printing of documents
2. Underpinning knowledge	<ul style="list-style-type: none"> 2.1 Basic software 2.2 Computer functions 2.3 Creating and opening documents 2.4 Formatting documents 2.5 Inserting tables and images 2.6 Saving, printing and closing documents 2.7 Mail merge function 2.8 Basic keyboarding skills 2.9 Methods and procedure in switching on and off the computer and other peripherals 2.10 Selection, opening and closing procedures of desktop icons to access application programs 2.11 Method of creating and organizing files for user and organization requirements 2.12 Data input techniques in accordance with standard typing procedure and office application 2.13 Printing procedure and commands
3. Underpinning skill	<ul style="list-style-type: none"> 3.1 Switching on power of computer and other peripheral devices 3.2 Arranging, customizing and manipulating PC desktop environment/graphical user interface (GUI) settings 3.3 Selecting, opening and closing desktop icons to access application programs 3.4 Creating and organizing Files for user and organization requirements 3.5 Entering data into the desired office application in accordance with work requirements 3.6 Entering print command to effect printing of documents 3.7 Switching off the computer and other peripherals and unplugging power supply in accordance with standard procedure

RAM

Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)
Principal

National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

4. Required attitude	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 implication	The following resources must be provided: 5.1 Relevant tools, Equipment, software and facilities needed to perform the activities. 5.2 Required learning materials.
6. Methods of assessment	6.1 Written Test 6.2 Demonstration 6.3 Oral Questioning 6.4 Portfolio
7. Context of assessment	7.1 Competency assessment must be done in NSDA accredited center. 7.2 Assessment should be done by 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>	



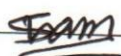
Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Unit Code and Title	SUICT002L3V1: Operate Office Application Software
Nominal Hours	25 hours
Unit Descriptor	This unit covers the knowledge, skills and attitude required to operate office application software. It specifically includes operating computer, installing application software, using word processor to prepare/create documents, using spread sheet to create /prepare worksheets, using presentation software to create / prepare presentation, and printing a document.
Elements of Competency	Performance Criteria <u>Bold and Underlined</u> terms are elaborated in the Range of Variable Training Components
1. Operate computer	<p>1.1 Safe workplace practices are observed according to IT workplace guideline.</p> <p>1.2 Desktop <u>Peripherals</u> are checked and connected with computer properly.</p> <p>1.3 Computer is switched on.</p> <p>1.4 Computer <u>desktop / GUI settings</u> are arranged and customized as per requirement.</p> <p>1.5 Files and folders are <u>manipulated</u> as per requirement.</p> <p>1.6 Properties of files and folders are viewed and searched.</p> <p>1.7 Disks are defragmented, formatted as per requirement.</p>
2. Install application software	<p>2.1 Installation requirements of software are identified and listed.</p> <p>2.2 Software sources and CD key/ password are assured.</p> <p>2.3 <u>Appropriate Software</u> are collected and selected as per requirement.</p> <p>2.4 Software installation is started.</p> <p>2.5 Customization is done as per requirement.</p> <p>2.6 Steps of installation are followed as per installation Instructions.</p> <p>2.7 Installations are completed properly.</p> <p>2.8 Correctness of Installation is checked.</p>
3. Use word processor to prepare/create documents	<p>3.1 Appropriate <u>word processor</u> is Selected and started.</p> <p>3.2 Documents are created as per requirement in Personal use and office environment.</p> <p>3.3 Contents are entered.</p> <p>3.4 Documents are formatted.</p> <p>3.5 Paragraph and page settings are completed.</p> <p>3.6 Document is saved.</p>
4. Use spreadsheet to create /prepare worksheets	<p>4.1 <u>Spreadsheet applications</u> are selected and started.</p> <p>4.2 Worksheets are created as per requirement in Personal use and office environment.</p> <p>4.3 Data are entered</p>

	<p>4.4 Functions are used for calculating and editing logical operation</p> <p>4.5 Sheets are formatted as per requirement.</p> <p>4.6 Charts are created.</p> <p>4.7 Charts/ Sheets are saved.</p>
5. Use presentation software to create / prepare presentation	<p>5.1 Appropriate presentation applications are selected and started</p> <p>5.2 Presentation is created as per requirement in personal use and office environment</p> <p>5.3 Image, Illustrations, text, table, symbols and media are entered as per requirements.</p> <p>5.4 Presentations are formatted and animated.</p> <p>5.5 Presentations are viewed and saved.</p>
6. Print a document	<p>6.1 Printer is connected with computer.</p> <p>6.2 Power is switched on at both the power outlet and printer.</p> <p>6.3 Printer is installed and added.</p> <p>6.4 Paper of proper size is put into printer.</p> <p>6.5 Correct printer setting is selected</p> <p>6.6 Document is previewed and printed.</p> <p>6.7 Print from the printer spool is viewed or cancelled and unsaved data is saved as per requirements.</p> <p>6.8 Opened software is closed.</p> <p>6.9 Devices are shut down.</p>

Range of Variables

Variable	Range (May include but not limited to:)
1. Peripherals	<p>1.1 Monitor</p> <p>1.2 Keyboard</p> <p>1.3 Mouse</p> <p>1.4 Modem</p> <p>1.5 Scanner</p> <p>1.6 Printer</p>
2. Desktop/ GUI settings	<p>2.1 Icons</p> <p>2.2 Taskbar</p> <p>2.3 View</p> <p>2.4 Resolutions</p>
3. Manipulate	<p>3.1 Create</p> <p>3.2 Open</p> <p>3.3 Copy</p> <p>3.4 Rename</p> <p>3.5 Delete</p> <p>3.6 Sort</p>
4. Appropriate Software	<p>5.1 Word processor.</p> <p>5.2 Spread sheet application.</p> <p>5.3 Presentation application.</p>
5. Word processor	<p>6.1 MS Word processor</p> <p>6.2 Open office Org</p> <p>6.3 Google docs</p> <p>6.4 Word perfect</p> <p>6.5 LibreOffice</p>



Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)
Principal

National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

6. Spread sheet applications	7.1 MS Excel 7.2 Google Sheets 7.3 Apple Numbers by Apple
7. Presentation application	8.1 MS PowerPoint 8.2 Google Slides 8.3 Prezi
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 installed Operating system 1.2 manipulated Files and folders as per requirement 1.3 installed application software 1.4 used functions in spread sheet. 1.5 applied animations into presentation slide. 1.6 printed document.
2. Underpinning knowledge	2.1 Desktop items 2.2 Type of Bangla keyboard layout 2.3 Different type of software and application packages 2.4 Use of word processor, spread sheet and presentation software 2.5 Type of printers 2.6 Type of charts, Impotence of chart 2.7 Different type of math and logical functions.
3. Underpinning skill	3.1 Starting computer 3.2 Installing Operating system 3.3 Managing desktop item 3.4 Manipulating Files and folders as per requirement 3.5 Installing application software 3.6 Running application software 3.7 Creating and saving document with word processing application. 3.8 Using functions in spread sheet. 3.9 Applying animations into presentation slide. 3.10 Printing document.
4. Required attitude	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, sub-ordinates and seniors in workplace
5. Resource implication	Following Resources must be provided 5.1 Relevant tools, Equipment, software and facilities needed to perform the activities. 5.2 Required learning materials.
6. Methods of assessment	6.1 Written Test 6.2 Demonstration

Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)
Principal

National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

	6.3 Oral Questioning 6.4 Portfolio
7. Context of assessment	7.1. Competency assessment must be done in NSDA accredited center. 7.2. Assessment should be done by 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 national qualification. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.</p>	



Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Unit Code and Title	SUICT003L3V1: Access Information using Internet and Electronic mail
Nominal Hours	15 hours
Unit Descriptor	This unit covers the knowledge, skills and attitude required to access information using internet and electronic mail. It specifically includes accessing resources from internet, using and managing electronic mail, and using audio/video tools for information transfer.
Elements of Competency	Performance Criteria <u>Bold and underlined</u> terms are elaborated in the Range of Variable.
1. Access resources from internet	1.1 Appropriate internet <u>browsers</u> are selected and installed. 1.2 Internet browser is opened and web address / URL is written/selected in /from address bar to access <u>information</u> . 1.3 <u>Search engines</u> are used to access information 1.4 Video / Information are Shared /downloaded / uploaded from / to web site/ <u>social media</u> . 1.5 <u>Web based resources</u> are used. 1.6 Netiquette' (or web etiquette) principles are searched and followed.
2. Use and manage electronic mail	2.1. <u>Email services</u> are identified and selected to create a new email address 2.2. Email account is created. 2.3. Document is prepared, attached and sent to different types of recipient. 2.4. Email is read, forwarded, replied and deleted as per requirement. 2.5. Custom email folders are created and manipulated. 2.6. Email message is printed.
3. Use audio/video tools for information transfer	3.1 Audio and video tools are identified 3.2 Apps using audio/video tools are identified 3.3 Information is transferred with apps using audio/video tools
Range of Variables	
Variable	Range (May include but not limited to:)
1. Browsers	1.1 Mozilla Firefox 1.2 Google chrome 1.3 Internet explorer 1.4 Opera
2. Information	2.1. Text information 2.2. Graphics 2.3. Video
3. Search engines	3.1. Google 3.2. Yahoo 3.3. AltaVista 3.4. Msn

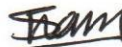


	3.5. Bing
4. Social media.	4.1 Face book 4.2 Twitter 4.3 LinkedIn 4.4 YouTube
5. Web based services	5.1 Drive 5.2 Calendar 5.3 Map 5.4 Translator 5.5 Docs 5.6 search
6. Email services	6.1 Free mail services –Gmail, Yahoo, Hotmail 6.2 Web mail services.
Evidence Guide	
The evidence must be authentic, 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 downloaded / uploaded video / Information from / to web site 1.2 prepared, attached and sent documents to different types of recipient.
2. Underpinning knowledge	2.1. Internet 2.2. www 2.3. web site 2.4. web address 2.5. URL 2.6. Web browsers 2.7. Search engines 2.8. Information 2.9. Social media 2.10. Web based services 2.11. Folder manipulation
3. Underpinning skill	3.1 Accessing and sharing resources from internet 3.2 Downloading /uploading file, documents and video from /to web sites 3.3 Sending and receiving mail through mail service. 3.4 Using audio/video tools to share information.
4. Required attitude	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, sub-ordinates and seniors in workplace
5. Resource implication	Following Resources must be provided- 5.1 Relevant tools, Equipment, software and facilities needed to perform the activities.

	5.2 Required learning materials.
6. Methods of assessment	6.1 Written Test 6.2 Demonstration 6.3 Oral Questioning 6.4 Portfolio
7. Context of assessment	7.1. Competency assessment must be done in NSDA accredited center. 7.2. Assessment should be done by NSDA certified/nominated assessor

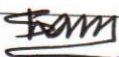
Accreditation Requirements

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Engr. B. M. Sharifut Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Unit Code and Title	SUICT004L3V1: Comply to Ethical Standards in IT Workplace
Nominal Hours	15 Hours
Unit Descriptor	This unit covers the knowledge, skills and attitudes required to comply to ethical standards in IT workplace. It specifically includes upholding the requirements of clients, delivering quality products and services, maintaining professionalism at workplace, and maintaining workplace code of conduct.
Elements of Competency	Performance Criteria <u>Bold and Underlined</u> terms are elaborated in the Range of Variables
1. Uphold the requirements of clients	<p>1.1 Clients' requirements are identified.</p> <p>1.2 Confidentiality of information is maintained in accordance with workplace policies / organizational policies/ national legislation.</p> <p>1.3 Potential conflicts of interest are identified and involved parties of potential conflicts are notified.</p> <p>1.4 Proprietary rights of client/customer is asserted.</p>
2. Deliver quality products and services	<p>2.1. Products and services are provided according to the clients' requirements.</p> <p>2.2. Work is completed as per standards.</p> <p>2.3. Quality processes are implemented when developing products and services.</p>
3. Maintain professionalism at workplace	<p>3.1 Work processes are delivered as per standards.</p> <p>3.2 Skills, knowledge and qualifications are presented in a professional manner.</p> <p>3.3 Services and products developed by self and others are delivered as per workplace standard.</p> <p>3.4 Unbiased and objective information are provided to clients.</p> <p>3.5 Realistic estimates for time, cost and delivery of outputs are presented during negotiation.</p>
4. Maintain workplace code of conduct.	<p>4.1 Workplace code of conduct are interpreted</p> <p>4.2 Workplace code of conduct is followed.</p>
Range of variables	
Variables	Range (may include but not limited to):
Evidence Guide	


Engr. B. M. Shariful Islam
 Deputy Director (Skills Standard)
 Principal
 National Skills Development Authority (NSDA)
 Prime Minister's Office, Dhaka

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

<p>1. Critical aspects of competency</p>	<p>Assessment required evidence that the candidate:</p> <ol style="list-style-type: none"> 1.1 asserted proprietary rights of client/customer. 1.2 completed work to industry and international standards. 1.3 implemented quality processes when developing products and services. 1.4 delivered services and products developed by self and others. 1.5 provided unbiased and objective information to clients. 1.6 followed workplace code of conduct.
<p>2. Underpinning knowledge</p>	<ol style="list-style-type: none"> 2.1. Corporate code of confidentiality of information 2.2. organizational policies, national legislation and workplace policies in relation to IT sector 2.3. Law and regulations pertaining to proprietary rights 2.4. Quality processes for products and services 2.5. Procedure of provided to client information 2.6. Method of estimating for time, cost and delivery products and services 2.7. Workplace code of conduct in IT sector
<p>3. Underpinning Skills</p>	<ol style="list-style-type: none"> 3.1. Upholding confidentiality of information in accordance with organizational policies, national legislation and workplace policies 3.2. Asserting proprietary rights of client/customer 3.3. Completing work in accordance with industry and international standards 3.4. Implementing quality processes when developing products and services 3.5. Delivering correctly services and products developed by self and others 3.6. Providing unbiased and objective information are to clients. 3.7. Presenting realistic estimates for time, cost and delivery of outputs during negotiation 3.8. Following workplace code of conduct
<p>4. Underpinning Attitudes</p>	<ol 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: 5.1 Relevant tools, Equipment, software and facilities needed to perform the activities. 5.2 Required learning materials.
6. Methods of Assessment	6.1 Written Test 6.2 Demonstration 6.3 Oral Questioning 6.4 Portfolio
7. Context of Assessment	7.1. Competency assessment must be done in NSDA accredited center. 7.2. Assessment should be done by 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>	



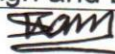
Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Occupation Specific Competencies



Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Unit Code and Title	OUGD001L3V1: Apply Graphic Design Concepts and Guidelines
Nominal Hours	40 Hours
Unit Descriptor	This unit covers the knowledge, skills and attitudes required to apply graphic design concepts and guidelines. It specifically includes interpreting fundamentals of graphic design, working with image, identifying image standards, creating basic designs, identifying career opportunities in the graphic design sector, and interpreting online market places.
Elements of Competency	Performance Criteria <u>Bold and Underlined</u> terms are elaborated in the Range of Variables
1. Interpret fundamentals of graphic design	1.1 <u>Types of graphic</u> design are comprehended. 1.2 Uses of graphic design are identified. 1.3 <u>Structure of graphics</u> are interpreted. 1.4 <u>Software for graphic design</u> are identified. 1.5 Basic design guidelines are Interpreted. 1.6 Design brief is interpreted.
2. Work with image	2.1. Appropriate Image modification software is identified and opened. 2.2. Image sources are identified. 2.3. Images are successfully Imported from appropriate source. 2.4. Image separation tools are identified and applied. 2.5. Separated image is saved.
3. Identify image standards	3.1 Image properties are identified. 3.2 Image resolution are identified and interpreted. 3.3 Image format are identified and selected.
4. Create basic designs	4.1 <u>Required designs</u> are specified. 4.2 Appropriate shape and size are identified. 4.3 Content area is defined. 4.4 <u>Contents</u> are inserted and composed. 4.5 <u>Shapes</u> are modified as per requirements. 4.6 Typographical design is applied as per requirements. 4.7 Font attributes are applied as per requirements. 4.8 Design and color are applied as per requirements. 4.9 Design is saved in appropriate <u>file format.</u>
5. Identify career opportunities in the graphic design sector	5.1 Local and international graphic design and Desktop Publishing (DTP) houses are identified. 5.2 Positions/jobs in the graphic design sector are identified. 5.3 Hands on graphics arts designer are identified. 5.4 Graphic design and DTP houses are visited on site and



	through the internet.
6. Interpret Online Market places	6.1 Source of carrier opportunities are identified. 6.2 Account opening procedure is interpreted. 6.3 Standard profile structure is outlined. 6.4 Bidding procedure for the jobs are interpreted. 6.5 Design submission procedure is interpreted. 6.6 Payment collection methods are identified.
Range of Variables	
Variables	Range (may include but not limited to):
1. Types of graphic	1.1 Vector 1.2 Raster 1.3 Bitmap
2. Structure of graphics	2.1 Vector based 2.2 Bitmap based
3. Software for graphic design	3.1 Adobe Photoshop 3.2 Adobe illustrator 3.3 Adobe in design 3.4 Corel draw
4. Required designs	4.1 Business card 4.2 ID card 4.3 Letterhead 4.4 Logo/ Monogram 4.5 Cash memo/ Invoice Form 4.6 Money receipt 4.7 Banner 4.8 Flyer / leaflet 4.9 National Flag
5. Shape	5.1 Square 5.2 Rectangle 5.3 Ellipses 5.4 Polygon
6. Contents	6.1 Text 6.2 Image 6.3 Vector 6.4 Logo
7. File format	7.1 .ai 7.2 .eps 7.3 .pdf 7.4 .jpeg 7.5 .png 7.6 .gif
8. Opportunities	8.1 Exhibitions 8.2 Floor talks at galleries 8.3 Competitions 8.4 Master classes 8.5 Trade fairs, expositions

8.6 Websites

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	<p>Assessment required evidence that the candidate:</p> <ol style="list-style-type: none"> 1.1 comprehended Types of graphic design. 1.2 interpreted design brief. 1.3 interpreted online Market places 1.4 identified and used relevant journals, magazines, catalogues and other media when developing graphic design.
2. Underpinning knowledge	<ol style="list-style-type: none"> 2.1 Types of graphic design 2.2 Uses of graphic design 2.3 Structure of graphics 2.4 Basic design guidelines 2.5 Image source 2.6 Different types of Tool 2.7 Career opportunities in the graphic design sector 2.8 Hands on graphics arts design 2.9 Online Market places
3. Underpinning Skills	<ol style="list-style-type: none"> 3.1 Demonstrating opportunities to continuously improve technical skills in basic design through identification, practice, feedback, discussion and evaluation. 3.2 Demonstrating capabilities to develop technical skills in basic design with materials, tools and equipment 3.3 Identifying and using relevant journals, magazines, catalogues and other media to stimulate technical and professional development in basic design guidelines. 3.4 Exhibiting working with others to develop basic design ideas 3.5 Demonstrating ability to gain experience in a range of genres and interpreting basic design guidelines 3.6 Identifying and using opportunities to develop own practice and keeping informed about current design trends serving as guidelines.
4. Required attitude	<ol 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 Implication	<p>The following resources must be provided:</p> <ol style="list-style-type: none"> 5.1 Relevant tools, Equipment, software and facilities

	needed to perform the activities. 5.2 Required learning materials.
6. Methods of Assessment	6.1 Written Test 6.2 Demonstration 6.3 Oral Questioning 6.4 Portfolio
7. Context of Assessment	7.1. Competency assessment must be done in NSDA accredited center. 7.2. Assessment should be done by 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>	



Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Unit Code and Title	OUGD002L3V1: Create Professional Designs Using Illustration Software
Nominal Hours	60 hours
Unit Descriptor	This unit of competency covers the knowledge, skills and attitude to create professional designs using Illustration software. It specifically includes preparing for design work, creating Design, and reviewing and Finalizing design works.
Elements of Competency	Performance Criteria <u>Bold and Underlined</u> terms are elaborated in the Range of Variable
1. Prepare for design work	1.1. Required <u>Professional Design</u> work are selected. 1.2. Appropriate Tools, Palette and arrange them as needed are identified. 1.3. Ruler/ <u>unit</u> /Grids/Guides/Smart Guides as per requirement are set 1.4. Key Drawing / Design Layout are prepared 1.5. <u>Marks</u> are interpreted. 1.6. Layer lock is applied
2. Create Design	2.1 <u>Contents</u> are inserted. 2.2 Color/Design/Pattern is applied. 2.3 Pathfinder to create complex Objects are used. 2.4 <u>Font Attributes</u> are applied as per requirement. 2.5 Zoom In-Out and Panning are used. 2.6 Design for further use is saved.
3. Review and Finalize design works	3.1. Artwork and Preview is used. 3.2. Layer Hide-Unhide option is used. 3.3. Appropriate marks are used. 3.4. Outline and Group Created. 3.5. appropriate <u>File Format</u> Saved. 3.6. The image to <u>recipient</u> is transferred.
Range of Variables	
Variable	Range (May include but not limited to:)
1. Professional Design	1. 1 Brochure 1. 2 Invitation Card 1. 3 Envelop 1. 4 Folder 1. 5 Poster 1. 6 Complex Logo
2. Unit	2. 1 Inch


Engr. E. M. Shariful Islam
 Deputy Director (Skills Standard)
 Principal
 National Skills Development Authority (NSDA)
 Prime Minister's Office, Dhaka

	<ul style="list-style-type: none"> 2.2 Centimetre 2.3 Millimetre 2.4 Pixel 2.5 Picas
3. Marks	<ul style="list-style-type: none"> 3.1 Crop marks 3.2 Cutting 3.3 Creasing
4. Contents	<ul style="list-style-type: none"> 4.1 Text 4.2 Image 4.3 Vector 4.4 Logo
5. Font Attributes	<ul style="list-style-type: none"> 5.1 Font Face 5.2 Font Style 5.3 Font Size 5.4 Alignment 5.5 Case 5.6 Indent 5.7 Leading 5.8 Tracking 5.9 Baseline Shift 5.10 Expand 5.11 Condensed 5.12 Tab Setting
6. File Format	<ul style="list-style-type: none"> 6.1. .ai 6.2. .eps 6.3. .pdf 6.4. .jpeg 6.5. .gif 6.6. .png
7. Recipient	<ul style="list-style-type: none"> 7.1. Client 7.2. Supervisor 7.3. Trainer 7.4. Assessor
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	<p>Assessment required evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 prepared Key Drawing / Design Layout 1.2 set Marks to design 1.3 applied Layer lock 1.4 created Outline and made Group

	1.5 save in appropriate File Format
2. Underpinning knowledge	2.1. Different Tools and Palette 2.2. Ruler/Unit/Grids/Guides/Smart Guides 2.3. Key Drawing / Design Layout 2.4. Various Marks 2.5. Layer lock 2.6. Types of Contents 2.7. Colour/Design/Pattern 2.8. Pathfinder 2.9. Font Attributes 2.10. Zoom In-Out and Panning 2.11. Saving the Design for further use 2.12. Artwork and Preview 2.13. Layer Hide-Unhide option 2.14. Outline and Group 2.15. Different types of File Format 2.16. Image Transferring Option
3. Underpinning skill	3.1. Arranging Tools and Palette 3.2. Setting ruler/ <i>unit</i> /Grids/Guides/Smart Guides 3.3. Preparing Key Drawing / Design Layout 3.4. Setting Various Marks 3.5. Applying Layer lock 3.6. Inserting Contents 3.7. Applying Colour/Design/Pattern 3.8. Using Pathfinder to create complex Objects 3.9. Applying Font Attributes 3.10. Using Zoom In-Out and Panning 3.11. Saving the Design for further use 3.12. Using Artwork and Preview 3.13. Using Layer Hide-Unhide option 3.14. Creating Outline and Group 3.15. Saving File in different Format 3.16. Transferring image to recipient
4. Required attitude	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



Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)

Principal

National Skills Development Authority (NSDA)

Prime Minister's Office, Dhaka

	4.8 Communication with peers, subordinates and seniors in workplace
5. Resource implication	Following resources must be provided: 5.1 Relevant tools, Equipment, software and facilities needed to perform the activities. 5.2 Required learning materials.
6. Methods of assessment	6.1 Written Test 6.2 Demonstration 6.3 Oral Questioning 6.4 Portfolio
7. Context of Assessment	7.1. Competency assessment must be done in NSDA accredited center. 7.2. Assessment should be done by NSDA certified/nominated assessor

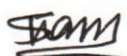
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Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Unit Code and Title	OUGD003L3V1: Separate and compose Images
Nominal Hours	60 hours
Unit Descriptor	This unit of competency specifies the knowledge, skills and attitude to develop technical and conceptual skills required to separate and compose Images. It specifically includes separating images, creating a composition, retouching image, applying color correction, applying effects, and evaluating own work.
Elements of Competency	Performance Criteria <u>Bold and underlined</u> terms are elaborated in the Range of Variable.
1. Separate Images	1.1 Image is selected 1.2 <u>Required tool</u> is selected 1.3 Clipping path is created 1.4 Image is separated from background
2. Create a composition	2.1 New document is created 2.2 Images are pasted for <u>edit</u> 2.3 Layers are created and selected. 2.4 Images are edited and arranged.
3. Retouch Image	3.1 Appropriate <u>retouch tools</u> are identified 3.2 Tools are calibrated as required 3.3 Layers are created and preserved 3.4 Retouch tools are used as per requirement 3.5 Images are corrected and saved in appropriate <u>file format</u>
4. Apply color Correction	4.1 <u>Color correction methods</u> are identified 4.2 Appropriate <u>image mode</u> is selected 4.3 Color correction methods are used 4.4 Image enhancement is compared with the original one 4.5 Design is saved in appropriate <u>file format</u> 4.6 Final image is transferred to recipient
5. Apply Effects	5.1 Identify appropriate <u>effect options</u> 5.2 Proper image mode is selected 5.3 Effects are applied to images/ layer as per requirements 5.4 Effects are compared and adjusted 5.5 Image is saved in appropriate file format 5.6 Image is transferred to recipient



Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)
Principal

National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

6. Evaluate own work	6.1 Constructive criticism from others is applied to improve own works. 6.2 Own works are evaluated against planned Strategy for own practice.
Range of Variables	
Variable	Range (May include but not limited to)
1. Required tool	1.1 Magic wand 1.2 Lasso tool 1.3 Pen tool
2. Edit	2.1. Transform 2.2. Transparency 2.3. Gradients 2.4. Strokes 2.5. Adjustment 2.6. Crop 2.7. Filter 2.8. outline 2.9. Blending option
3. Retouch tools	3.1 Healing brush tool 3.2 Spot Healing 3.3 Patch Tool 3.4 Clone Stamp Tool
4. Color correction methods	4.1 Brightness and Contrast 4.2 Hue and Saturation 4.3 Level 4.4 Curve 4.5 Selective colour 4.6 Variations 4.7 Photo Filter
5. Image mode	5.1 RGB 5.2 CMYK 5.3 Grey scale 5.4 LAB Colour 5.5 Index Colour



Engr. B. M. Shariful Islam
 Deputy Director (Skills Standard)
 Principal
 National Skills Development Authority (NSDA)
 Prime Minister's Office, Dhaka

6. File format	6.1 .psd 6.2 .jpeg 6.3 .png 6.4 .tiff 6.5 .gif
7. Effect options	7.1 Filter 7.2 Blending Options 7.3 Plugins
Evidence Guide	
The evidence must be authentic, valid, sufficient, reliable, consistent & 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 created clipping path 1.2 created and selected layers 1.3 used retouch tools as per requirement 1.4 used color correction methods 1.5 applied effects to image/layers
2. Underpinning knowledge	2.1. Image sources 2.2. Type of image format 2.3. Type of image separation tools 2.4. Image quality and resolution 2.5. Image size 2.6. Image layer 2.7. Image composition 2.8. Image Editing 2.9. Photoshop work area
3. Underpinning skill	3.1. Creating clipping path 3.2. Separating image from background 3.3. Creating and selecting layers 3.4. Editing and arranging images 3.5. Using retouch tools as per requirement 3.6. Using color correction methods 3.7. Comparing image enhancement with the original one 3.8. Applying effects to image/layers 3.9. Comparing and adjusting effects
4. Required attitude	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

	<p>4.6 Tidiness and timeliness</p> <p>4.7 Respect for rights of peers and seniors in workplace</p> <p>4.8 Communication with peers, sub-ordinates and seniors in workplace</p>
5. Resource implication	<p>The following resources must be provided</p> <p>5.1 Relevant tools, Equipment, software and facilities needed to perform the activities.</p> <p>5.2 Required learning materials.</p>
6. Methods of assessment	<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 NSDA accredited center.</p> <p>7.2 Assessment should be done by 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 assurance to conduct training and assessment against this unit of competency for credit towards the award of any national qualification. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.



Engr. B. M. Shariful Islam
 Deputy Director (Skills Standard)
 Principal
 National Skills Development Authority (NSDA)
 Prime Minister's Office, Dhaka

Unit Code and Title	OUGD004L3V1: Create Mock Up and Print
Nominal Hours	40 Hours
Unit Descriptor	This unit covers the knowledge, skills and attitudes required to create mock up and print. It specifically includes preparing the work environment, Creating mock up, and printing draft.
Elements of Competency	Performance Criteria <u>Bold and Underlined</u> terms are elaborated in the Range of Variables
1. Prepare the work environment	1.1 Design details of the <u>graphic design project</u> are reviewed to identify preference setting requirements. 1.2 View magnification is set for ease of working with the <u>graphics application</u> .
2. Create mock up	2.1 Product shots are collected/taken. 2.2 A separate layer is prepared. 2.3 Screen layer is made. 2.4 Housekeeping/organizing work is done. 2.5 Mock up is completed and saved.
3. Print draft	3.1 Printer is selected 3.2 Print preview option is accessed 3.3 Document is adjusted where necessary 3.4 Printout is taken
Range of Variables	
Variable	Range (may include but not limited to):
1. Graphic design project	1.1 Stationary 1.2 Collaterals 1.3 Flyers and leaflets 1.4 Brochure, catalogue 1.5 Book design, magazine 1.6 Poster, Banner, Festoon, Bunting, Dangler, shelf talker, kiosk 1.7 Billboard, signage 1.8 Packaging, label, sticker 1.9 Advertisement: Press, Outdoor, Web 1.10 T-shirt Graphics 1.11 Vehicle graphics
2. Graphics application	2.1 Adobe Illustrator CS-3 2.2 CorelDraw X4 2.3 In Design CS-2 2.4 Quark Xpress -7 2.5 Adobe Photoshop Elements 2.6 Photo studio



Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)
Principal

National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

	2.7 Cyber link Photo Director 2.8 Correl Paint shop Pro 2.9 Xara 2.10 Serif Photo Plus
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 made screen layer 1.2 completed mockup 1.3 adjusted document from print preview
2. Underpinning Knowledge	2.1 Design details of the graphics design project 2.2 View magnification 2.3 Product shot 2.4 Screen layer 2.5 Housekeeping/organizing work 2.6 Mockup
3. Underpinning Skills	3.1 Setting view magnification 3.2 Collecting/taking product shot 3.3 Making screen layer 3.4 Doing housekeeping/organizing work 3.5 Completing mockup 3.6 Adjusting document from print preview 3.7 Taking print of mock up
4. Required Attitudes	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: 5.1 Relevant tools, Equipment, software and facilities needed to perform the activities. 5.2 Required learning materials.
6. Methods of Assessment	6.1 Written Test 6.2 Demonstration 6.3 Oral Questioning 6.4 Portfolio


Engr. B. M. Shariful Islam
 Deputy Director (Skills Standard)
 Principal
 National Skills Development Authority (NSDA)
 Prime Minister's Office, Dhaka


7. Context of Assessment	7.1 Competency assessment must be done in NSDA accredited center. 7.2 Assessment should be done by NSDA certified/ nominated assessor
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Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

Unit Code and Title	OUGD005L3V1: Develop Materials for Output
Nominal Hours	60 hours
Unit Descriptor	This unit covers the knowledge, skills and attitudes required to develop materials for output. It specifically includes verifying design work, preparing template, and preparing for final output
Elements of Competency	Performance Criteria Underlined Strong terms are elaborated in the Range of Variable
1. Verify design work	1.1 Design work is opened in relevant Software . 1.2 Design is verified against the design brief. 1.3 Design is adjusted as required.
2. Prepare output template	2.1 Design output is interpreted. 2.2 Template for the output is created. 2.3 Contents are set accordingly. 2.4 Printing Marks are set. 2.5 Output Templates are saved.
3. Prepare for final output	3.1 Text are outlined to objects. 3.2 Design Objects are grouped. 3.3 Colors are separated according to output. 3.4 Final designs are saved.
Range of Variables	
Variable	Range (May include but not limited to:)
1. Relevant Software	1.1 Adobe Photoshop 1.2 Adobe Illustrator 1.3 Adobe InDesign 1.4 CorelDraw 1.5 Quark Xpress
2. Design output	2.1 Stationary 2.2 Collaterals 2.3 Flyers and leaflets 2.4 Brochure, catalogue 2.5 Book design, magazine 2.6 Poster, Banner, Festoon etc.

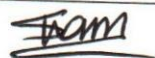


Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)
Principal

National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

3. Contents	<ul style="list-style-type: none"> 3.1 Text 3.2 Image 3.3 Vector 3.4 Smart Object
4. Printing Marks	<ul style="list-style-type: none"> 4.1 Crop Marks (trim marks) 4.2 Bleed Marks 4.3 Registration Marks 4.4 Color bars (densitometer scales) 4.5 Star target
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	<p>Assessment required evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 verified design against the design brief 1.2 set printing Marks 1.3 separated colors according to output
2. Underpinning Knowledge	<ul style="list-style-type: none"> 2.1 Design brief 2.2 Printing marks 2.3 Output 2.4 Outline 2.5 Color separation
3. Underpinning Skills	<ul style="list-style-type: none"> 3.1 Verifying design against the design brief 3.2 Adjusting design as required 3.3 Creating template for the output 3.4 Setting contents accordingly 3.5 Setting printing Marks are 3.6 Outlining text to objects 3.7 Grouping design objects 3.8 Separating colors according to output
4. Required 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	<p>The following resources must be provided:</p> <ul style="list-style-type: none"> 5.1 Relevant tools, Equipment, software and facilities needed to perform the activities.




Engr. B. M. Shariful Islam

Deputy Director (Skills Standard)
Principal

National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

	5.2 Required learning materials.
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 NSDA accredited center.</p> <p>7.2 Assessment should be done by NSDA certified/ nominated 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 any NTVQF qualification. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.</p>	

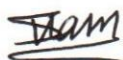

Engr. B. M. Shariful Islam
 Deputy Director (Skills Standard)
 Principal
 National Skills Development Authority (NSDA)
 Prime Minister's Office, Dhaka

Validation of Competency Standard by Standard and Curriculum Validation Committee (SCVC)

The Competency Standards for National Skills Certificate in **Graphic Design, NTVQF L-3** Qualification is validated by SCVC on 12 January 2020 and approved by NSDA.

Respectable members of the SCVC:

Graphic Design, Level - 3		
1	Md. Faruque Hossain, Executive Chairman (Secretary) Tel: +880 2 8891091, Email: ecnsda@nsda.gov.b	Chief Guest
2	ATM Mahbubul Alam, Secretary General, ICTISC, Cell: +8802-8833463-64, Email: mahbub@wintelbd.com	Chairperson
3	Mohammad Rezaul Karim, Additional Secretary, Member (Skills Standard & Certification) Tel: +880 2 8891096, Email: rezaul134@yahoo.com	Member
4	Md. Mustafizur Rahman, CEO, Choukosh. Cell: 01819201456	Member
5	A.B.M. Owai Ikramul Islam, Trainer & Assessor, BASIS, Cell: 01847174678	Member
6	Mahbub Ul Huda, Curriculum Coordinator (Consultant), NSDA. Cell: 01735490491, Email: huda763@gmail.com	Member
7	Engr. Md. Abdur Razzaque, Specialist (CS), NSDA, Dhaka. Mobile: +88 01743 734313, E-mail: razzaque159@gmail.com	Member
8	Mr. Saif Uddin, Process Expert (CS and Curriculum), Cell: 01723004419, Email: engrbd.saif@gmail.com	Member
9	Modhusudan Sarkar, Consultant, NSDA Cell:01714164518	Member
10	Ahsanul Haq, MIS Consultant, NSDA Cell: 01712631884	Member
11	Md. Quamruzzaman, Director (Skills Standard) Tel: +880 2 8891097, Email: qzaman40@yahoo.com	Member
12	Engr. B.M. Shariful Islam, Deputy Director (Skills Standard) Cell: +880 01715010321, Email: sharif9375@gmail.com	Member
13	Farid Ahmed, Deputy Director, NSDA Cell: +880 01714545851, Email: faridje1993@gmail.com	Member
14	Shilabrata Karmakar, Deputy Director (Admin) Cell: +880 1819478847, Email: shila16208@gmail.com	Member



Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka

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This Competency Standard for **Graphic Design** 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 for individuals who graduated through the established standard via competency-based assessment to be suitably qualified for a relevant job.

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National Skills Development Authority (NSDA)

423-428 Tejgaon Industrial Area, Dhaka-1215

Phone: +880 2 8891091; Fax: +880 2 8891092;

E-mail: ecnsda@nsda.gov.bd

Website: www.nsga.gov.bd

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..... তারিখে স্বাক্ষরিত সভায় অনুমোদিত


Engr. B. M. Shariful Islam
Deputy Director (Skills Standard)
Principal
National Skills Development Authority (NSDA)
Prime Minister's Office, Dhaka