



FOR GRAPHIC DESIGN (ICT Sector)

Level: 03

Competency Standard Code: I08S004L3V1

National Skills Development Authority
Prime Minister's Office, Bangladesh

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Introduction

The National Skills Development Authority (NSDA) aims to enhance an individual's employability by certifying competiveness 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 students enrolled in TVET. Students 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.

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

Competency Standards for National Skill Certificate –III in Graphic Design in ICT Sector

NTVQF with Job Classifications

NTVQF	EDUG	CATION SECTORS		Job Classification
LEVELS	Pre-Vocation Education	Vocational Education	Technical Education	Job Classification
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

NTVQF Level Descriptors

NTVQF Level	Knowledge	Skill	Responsibility	Job Class.
6	Comprehensive actual and theoretical knowledge within a specific study area with an awareness of the limits of that knowledge	Specialised and restricted range of cognitive and practical skills required to provide leadership in the development of creative solutions to defined problems	Mange 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	Very broad knowledge of the underlying, concepts, principles, and processes in a specific study area	Very broad range of cognitive and practical skills required to generate solutions to specific problems in one or more study areas.	Take overall responsibility for completion of tasks in work or study Apply past experiences in solving similar problems	Highly Skilled Worker / Supervisor
4	Broad knowledge of the underlying, concepts, principles, and processes in a specific study area	Range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying the full range of methods, tools, materials and information	Take responsibility, within reason, for completion of tasks in work or study Apply past experiences in solving similar problems	Skilled Worker
3	Moderately broad knowledge in a specific study area.	Basic cognitive and practical skills required to use relevant information in order to carry out tasks and to solve routine problems using simple rules and tools	Work or study under supervision with some autonomy	Semi-Skilled Worker
2	Basic underpinning knowledge in a specific study area.	Basic skills required to carry out simple tasks	Work or study under indirect supervision in a structured context	Basic Skilled Worker
1	Elementary understanding of the underpinning knowledge in a specific study area.	Limited range of skills required to carry out simple tasks	Work or study under direct supervision in a structured context	Basic Worker
Pre-Voc 2	Limited general knowledge	Very limited range of skills and use of tools required to carry out simple tasks	Work or study under direct supervision in a well-defined, structured context.	Pre-Vocation Trainee
Pre-Voc 1	Extremely limited general knowledge	Minimal range of skills required to carry out simple tasks	Simple work or study exercises, under direct supervision in a clear, well defined structured context	Pre-Vocation Trainee

List of Abbreviations

General

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

Occupation Specific Abbreviations

MSDS - Material Safety Data Sheet

OSH - Occupational Safety and Health

PPE - Personal Protective Equipment

SOP - Standard Operating Procedures

Approval of Competency Standard

Members of the Approval Committee:

Member	Signature
Golam Md. Hashibul Alam	-
(Secretary)	
Executive Chairman	
National Skills Development Authority (NSDA)	
Pijush Kanti Nath	
Additional Secretary	
Member (Admin & Finance)	
National Skills Development Authority (NSDA)	
Mohammad Rezaul Karim	
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National Skills Development Authority (NSDA)	
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National Skills Development Authority (NSDA)	

Golam Md. Hashibul Alam (Secretary) Executive Chairman

National Skills Development Authority (NSDA)

Date:

Competency Standards for National Skill Certificate –III in Graphic Design in ICT Sector

Course Structure

SL	Unit Code and Title UoC Level				
The	Generic Compete	ncies		36	
1	GCU02L1V1	Apply Occupational Safety and Health (OSH) Practices at Workplace	1	16	
2	GCU05L2V1	Carry out workplace interaction in English	3	20	
The	Sector Specific C	ompetencies		64	
1	SSU06I08L1V1	Operate a Personal Computer and Use Application programs	2	12	
2	SSU07I08L1V1	Operate office application software	2	24	
3	SSU08I08L2V1	Access Information using Internet and electronic mail	3	12	
4	SSU04I08L3V1	Comply to Ethical Standards in IT Workplace	3	16	
The	Occupation Spec	ific Competencies		260	
1	OSU01I08L3V1	Apply Graphic Design Concepts and Guidelines	3	40	
2	OSU02I08L3V1	Create professional designs using Illustration software.	3	60	
3	OSU03I08L3V1	Separate and compose Images	3	60	
4	OSU04I08L3V1	Create Mock Up and print	3	40	
	OSU05I08L3V1	Develop materials for output	3	60	
	Total Nominal Learning Hours				

Units & Elements at Glance

The Generic Competencies

Code	Unit of Competency	Jnit of Competency Elements of Competency		
GCU02L1V1	Apply Occupational Safety and Health (OSH) Practices at Workplace	 Identify, control and report OSH hazards Conduct work safely Follow emergency response procedures Maintain and improve health and safety in the workplace 	16	
GCU05L3V1	Carry out workplace interaction in English	 Interpret workplace communication and etiquette Read and Understand Workplace Documents Participate in workplace meetings and discussions Practice professional ethics at workplace 	20	

The Sector Specific Competencies

Code	Unit of Competency	1. Elements of Competency	Duration (Hours)
SSU06I08L1V1	Operate a Personal Computer and Use Application programs	 Start computer Access basic system information Work with files and folders Use application programs Print documents Shut down computer 	12
SSU07I08L1V1	Operate office application software	 Operate computer Install application software Use word processor to prepare/create documents Use spreadsheet to create /prepare worksheets Use presentation software to create / prepare presentation Print a document 	24
SSU08I08L2V1	Access Information using Internet and electronic mail	 Access resources from internet Use and manage Electronic mail Use audio/video tools for information transfer 	12
SSU04I08L3V1	Comply to Ethical Standards in IT Workplace	 Uphold the requirements of clients Deliver quality products and services Maintain professionalism at workplace Maintain workplace code of conduct. 	16

The Occupation Specific Competencies

Code	Unit of Competency	Elements of Competency	Duration (Hours)
OSU01l08L3V1	Apply Graphic Design Concepts and Guidelines	 Interpret fundamentals of graphic design Work with image Identify image standards Create basic designs Identify career opportunities in the graphic design sector Interpret Online Market places 	40
OSU02l08L3V1	Create professional designs using Illustration software.	Prepare for design work Create Design Review and Finalize design works	60
OSU03I08L3V1	Separate and compose Images	 Separate Images Create a composition Retouch Image Apply color correction Apply Effect Evaluate own work 	60
OSU04I08L3V1	Create Mock Up and print	Prepare the work environment Create mock up Print draft	40
OSU05I08L3V1	Develop materials for output	Verify design work Prepare output template Prepare for final output	60

The Generic Competencies

Unit Code and Title	GCU02L1V1 Apply OSH Practices in the Workplace		
Nominal Hours	16 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 Bold & Underlined terms are elaborated in the Range of Variables Training Components		
1. Identify, control and report OSH hazards	 1.1 Immediate work area is routinely checked for OSH hazards prior to commencing and during work 1.2 <u>Hazards</u> and unacceptable performance are identified and corrective action is taken within the level of responsibility 1.3 OSH hazards and incidents are reported to appropriate personnel according to workplace procedures 1.4 Safety Signs and symbols are identified and followed 		
2. Conduct work safely	 2.1 OSH practices are applied in the workplace 2.2 Appropriate <u>Personal Protective Equipment (PPE)</u> is selected and worn 2.3 Personal hygiene is maintained. 		
3. Follow emergency response procedures	 3.1 Emergency situations are identified and reported according to workplace reporting requirements 3.2 Emergency procedures are followed as appropriate to the nature of the emergency and according to workplace procedures 3.3 Workplace procedures for dealing with accidents, fires and emergencies are followed whenever necessary within scope of responsibilities 		

4. Maintain and improve health and safety in the workplace	 4.1 Risks are identified and appropriate control measures are implemented in the work area 4.2 Recommendations arising from risk assessments are implemented within level of responsibility 4.3 Opportunities for improving OSH performance are identified and raised with relevant personnel 4.4 Safety records according to company policies are maintained 		
Range of Variables Variable	Denote (many include but not limited to).		
Company policies	 Range (may include but not limited to): 1.1 Job-related Standard Operating Procedures (SOPs) 1.2 OSH-specific procedures. 1.3 Examples of OSH procedures include consultation and participation, emergency response, response to specific hazards, incident investigation, risk assessment, reporting arrangements and issue resolution 		
2. Workplace procedures	procedures 2.1 OSH system and related documentation including policies and procedures 2.2 Standard Operating Procedures (SOPs) 2.3 Information on hazards and the work process, hazard alerts, safety signs and symbols 2.4 Labels 2.5 Material Safety Data Sheets (MSDSs) and manufacturers' advice		
3. Hazards	 3.1 OSH incidents include near misses, injuries, illnesses and property damage, noise, handling hazardous substances, other hazards 3.2 Working with and near moving equipment/load shifting equipment 3.3 Broken or damaged equipment or materials 		
Personal Protective Equipment (PPE)	4.1 Goggles 4.2 Ear muffs 4.3 Ear plugs 4.4 Gloves 4.5 Clothing 4.6 Apron 4.7 Helmet 4.8 Boots		

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

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	Trainee with acquire knowledge of: 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, software and facilities needed to perform the activities. 5.2 Required learning materials.
6. Methods of assessment	Methods of assessment may include but not limited to: 6.1 Written test 6.2 Demonstration 6.3 Oral questioning
7. Context of assessment	 7.1 Competency assessment must be done in a training center or in an actual or simulated work place after Completion of the training module 7.2 Assessment should be done by NSDA certified assessor

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.

Unit Code and Title	GCU05L3V1: Carryout Workplace Interaction in English	
Nominal Hours	20 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 Bold & Underlined terms are elaborated in the Range of Variables Training Components	
Interpret workplace communication and etiquette	 1.1 Workplace code of conducts are interpreted as per organizational guidelines 1.2 Appropriate lines of communication are maintained with supervisors and colleagues 1.3 Workplace interactions are conducted in a courteous manner to gather and convey information 1.4 Questions about routine workplace procedures and matters are asked and responded as required 	
Read and Understand Workplace Documents	 2.1 Workplace documents are interpreted as per standard. 2.2 Assistance is taken to aid comprehension when required from peers / supervisors 2.3 Visual information / symbols / signage's are understood and followed 2.4 Specific and relevant information are accessed from appropriate sources 2.5 Appropriate medium is used to transfer information and ideas 	

Participate in workplace meetings and discussions	 3.1 Team meetings are attended on time and followed meeting procedures and etiquette 3.2 Own opinions are expressed and listened to those of others without interruption 3.3 Inputs are provided consistent with the meeting purpose and interpreted and implemented meeting outcomes 	
Practice professional ethics at workplace	 4.1 Responsibilities as a team member are demonstrated and kept promises and commitments made to others 4.2 Tasks are performed in accordance with workplace procedures 4.3 Confidentiality is respected and maintained 4.4 Situations and actions considered inappropriate or which present a conflict of interest are avoided 	
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	
Workplace Procedures and	 2.1 Notes 2.2 Agenda 2.3 Simple reports such as progress and incident reports 2.4 Job sheets 2.5 Operational manuals 	
Matters	 2.6 Brochures and promotional material 2.7 Visual and graphic materials 2.8 Standards 2.9 OSH information 2.10 Signs 	

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

Critical Aspects of Competency	Assessment required evidence that the candidate: 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	Trainee will acquire knowledge of: 2.1 Workplace communication and etiquette 2.2 Workplace documents, signs and symbols 2.3 meeting procedure and etiquette
3. Underpinning Skills	 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
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	Methods of assessment may include but not limited to: 6.1 Written test 6.2 Demonstration 6.3 Oral questioning

		7.1 Competency assessment must be done in a training
	7. Context of	centre or in an actual or simulated work place after
Assessment	Completion of the training module	
	7.2 Assessment should be done by NSDA certified	

7.2 Assessment should be done by NSDA certified 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.

The Sector Specific Competencies

Unit Code and Title	SSU06l08L1V1: Operate a Personal Computer and Use Applications programs
Nominal Hours	12 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	Performance Criteria
Competency	Bold and Underlined terms are elaborated in the Range of Variables Training Components
1. Start computer	 Safe workplace practices are observed according to IT workplace guideline. Computer is checked for proper connection position and usability. Peripheral devices are checked for correct connection, position and usability. Power of computer and other peripheral devices are switched on.
2. Access basic system information	 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 operating system information is identified. 2.4 System configuration and application versions in operation are navigated.
3. Work with files and folders	 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 data storage devices.
4. Use application programs	4.1 Calculator program is used4.2 Notepad is used4.3 WordPad is used4.4 Snipping Tool is applied

	4.5 Paint is used 4.6 Sticky Note is used
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 <u>application programs</u> 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

	1
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
	1.3Both 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. Application programs	2.1 Word processors
	2.2 Spreadsheets
	2.3 Slide presentation
	2.4 Email interface

	2.5 Internet browsers
Operating system	3.1 Microsoft Windows
	3.2 Apple Mac OS
	3.3 Ubuntu Linux
	3.4 Google android
	3.5 iOS
4. Data storage devices	4.1 Random Access Memory (RAM)
	4.2 Hard disk
	4.3 CD/DVD
	4.4 Flash drive
	4.5 External hard disk

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

	Asses	ssment required evidence that the candidate:
Critical aspects of		Arranged, customized and manipulated PC desktop
		environment/graphical user interface (GUI) settings.
competency		Selected, opened and closed desktop icons to access application programs
		Entered data into the desired office application in
		accordance with work requirements
		Entered print command to effect printing of documents
	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. Underpinning	2.8	Basic keyboarding skills
	2.9	Methods and procedure in switching on and off the
knowledge		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
	3.1	Switching on power of computer and other peripheral
		devices
	3.2	Arranging, customizing and manipulating PC desktop
3. Underpinning skill		environment/graphical user interface (GUI) settings
2. 2.143. [2.11.13]	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
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	Methods of assessment may include but not limited to: 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 a training center or in an actual or simulated workplace after completion of the training module7.2 Assessment should be done by NSDA certified assessor

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.

Unit Code and Title	SSU07I08L1V1: Operate office application software
Nominal Hours	24 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
	Bold and Underlined terms are elaborated in the Range of Variable Training Components
Operate computer	1.1 Safe workplace practices are observed according to IT
	workplace guideline. 1.2 Desktop <u>Peripherals</u> are checked and connected with computer properly.
	1.3 Computer is switched on.
	1.4 Computer <u>desktop / GUI settings</u> are arranged and
	customized as per requirement.
	1.5 Files and folders are manipulated as per requirement.
	1.6 Properties of files and folders are viewed and searched.
2 Install application	1.7 Disks are defragmented, formatted as per requirement.
2. Install application	2.1 Installation requirements of software are identified2.2 and listed.
software	
	2.3 Software sources and CD key/ password are assured.2.4 Appropriate Software are collected and selected as
	2.5 per requirement.
	2.6 Software installation is started.
	2.7 Customization is done as per requirement.
	2.8 Steps of installation are followed as per installation
	Instructions.
	2.9 Installations are completed properly.
	2.10 Correctness of Installation is checked.
3. Use word processor to	3.1 Appropriate word processor is
prepare/create	Selected and started.
documents	3.2 Documents are created as per requirement in
	Personal use and office environment.
	3.3 Contents are entered.
	3.4 Documents are formatted.
	3.5 Paragraph and page settings are completed.
4 11	3.6 Document is saved.
4. Use spreadsheet to	4.1 Spreadsheet applications are selected and started.
create /prepare worksheets	4.2 Worksheets are created as per requirement in Personal use and office environment.
MOLVOLICETO	4.3 Data are entered
	4.4 Functions_are used for calculating and editing logical
	operation
	4.5 Sheets are formatted as per requirement.
	4.6 Charts are created.
	4.7 Charts/ Sheets are saved.

5. Use presentation	6.1	Appropriate <u>presentation applications</u> are
software to create /		selected and started
prepare presentation	6.2	Presentation are created as per requirement in
		personal use and office environment
	6.3	Image, Illustrations, text, table, symbols and
		Media are entered as per requirements.
	6.4	Presentations are formatted and animated.
	6.5	Presentations are viewed and saved.
6. Print a document	7.1	Printer_is connected with computer.
	7.2	Power is switched on at both the power outlet and
		printer.
	7.3	Printer is installed and added.
	7.4	Paper of proper size is put into printer.
	7.5	Correct printer setting is selected
	7.6	Document is previewed and printed.
	7.7	Print from the printer spool is viewed or cancelled and
		unsaved data is saved as per requirements.
	7.8	Opened software is closed.
	7.9	Devices are shut down.
Range of Variables		
Variable	Ran	ge (May include but not limited to:)
1. Peripherals	1.1	Monitor
-	1.2	Keyboard
	1.3	Mouse
	1.4	Modem
	1.5	Scanner
	1.6	Printer
2. Desktop settings	2.1	Icons
	2.2	Taskbar
	2.3	View
	2.4	Resolutions
3. manipulate	3.1	Create
	3.2	Open
	3.3	Copy
	3.4	Rename
	3.5	Delete
	3.6	Sort
4. Typing tutors	4.1	English typing tutor
,, ,	4.2	Bangla typing tutor
5. Appropriate Software	5.1	MS office or Open office but limited to
'' '	5.2	
	5.3	
	5.4	Presentation software.
6. Word processor	6.1	MS Word processor
	6.2	Open office Org
	6.3	Google docs
	6.4	Word perfect
	6.5	Libreoffice
	0.0	Librodinio

-	
7. Spread sheet	7.1 MS Excel
applications	7.2 Google Sheets
	7.3 Apple Numbers by Apple
8. Presentation application	8.1 MS PowerPoint
	8.2 Google Slides
	8.3 Prezi
Evidence Guide	
	ntic, valid, sufficient, reliable, consistent and recent and meet the
	ersion of the Unit of Competency.
Critical aspects of	1.1 Installed Operating system
competency	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
, i	5.1 Relevant tools, Equipment, software and facilities needed
	to perform the activities.
	5.2 Required learning materials.
6. Methods of assessment	6.1 Demonstration with oral questioning
	6.2 Direct observation
	6.3 Written test

	6.4 Portfolio
7. Context of assessment	 7.1 Competency assessment must be done in a training center or in an actual or simulated work place after completion of the training module 7.2 Assessment should be done by NSDA certified assessor
l	

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.

Unit Code and Title	SSU08I08L2V1: Access Information using Internet	
	and Electronic mail.	
Nominal Hours	12 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	
	Bold and underlined terms are elaborated in the	
	Range of Variable.	
1. Access resources from	1.1 Appropriate internet browsers are selected and	
internet	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 Search engines are used to access information	
	1.4 Video / Information are Shared /downloaded /	
	uploaded from / to web site/social media.	
	1.5 <u>Web based resources</u> are used.	
	1.6 Netiquette' (or web etiquette) principles are	
	searched and followed.	
2. Use and manage	2.1. Email services are identified and selected to	
electronic mail	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	3.1 Audio and video tools are identified	
information transfer	3.2 Apps using audio/video tools are identified	
	3.3 Information is transferred with apps using	
	audio/video tools	
Panga of Variables		
Range of Variables Variable	Range (May include but not limited to:)	
1. Browsers	1.1 Mozilla Firefox	
i. Diowacia	1.2 Google chrome	
	1.3 Internet explorer	
	1.4 Opera	
2. Information	2.1. Text information	
Z. Illioilliadoli	2.2. Graphics	
	2.3. Video	
3. Search engines	3.1. Google	
o. Ocaron chighles	3.2. Yahoo	
	3.3. AltaVista	
	3.4. Msn	

	3.5.	Bing
4. Social media.	4.1	Face book
4. Coolai Modia.	4.2	Twitter
	4.3	LinkedIn
	4.4	YouTube
5. Web based services	5.1	Drive
0. W05 54004 001 V1000	5.2	Calendar
	5.3	Map
	5.4	Translator
	5.5	Docs
	5.6	search
6. Email services		Free mail services –Gmail, Yahoo, Hotmail
o. Email convicts		Web mail services.
Evidence Guide		
	ntic, va	alid, sufficient, reliable, consistent and recent and
		t version of the Unit of Competency.
Critical aspects of	1.1	Video / Information are downloaded / uploaded
competency		from / to web site
. ,	1.2	Documents are prepared, attached and sent 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.
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
<u> </u>	<u> </u>	seniors in workplace
5. Resource implication		wing 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 Demonstration with oral questioning 6.2 Direct observation 6.3 Written test 6.4 Portfolio
7. Context of assessment	7.1 Competency assessment must be done in a training center or in an actual or simulated work place after completion of the training module 7.2 Assessment should be done by NSDA certified assessor

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Unit Code and Title	SSU04I08L3V1: Comply to Ethical Standards in IT Workplace	
Nominal Hours	16 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 Bold and Underlined terms are elaborated in the Range of Variables	
Uphold the requirements of clients Deliver quality products and services	 Clients' requirements are identified. Confidentiality of information is maintained in accordance with workplace policies / organizational policies/ national legislation. Potential conflicts of interest are identified and involved parties of potential conflicts are notified. Proprietary rights of client/customer is asserted. Products and services are provided according to the clients' requirements. Work is completed as per standards. Quality processes are implemented when developing products and services. 	
3. Maintain professionalism at workplace	 3.1 Work processes are delivered as per standards. 3.2 Skills, knowledge and qualifications are presented in a professional manner. 3.3 Services and products developed by self and others are delivered as per workplace standard. 3.4 Unbiased and objective information are provided to clients. 3.5 Realistic estimates for time, cost and delivery of outputs are presented during negotiation. 	
Maintain workplace code of conduct.	4.1 Workplace code of conduct are interpreted4.2 Workplace code of conduct is followed.	
Range of variables		
Variables	Range (may include but not limited to):	

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 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. 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
1. Critical aspects of competency 1. Implemented quality processes when developing products and services. 1. Delivered services and products developed by self and others. 1. Provided unbiased and objective information to clients. 1. Corporate code of conduct. 2. Corporate code of confidentiality of information 2. organizational policies, national legislation and workplace policies in relation to IT sector 2. Law and regulations pertaining to proprietary rights
standards. 1. Critical aspects of competency 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. 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
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. 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
competency 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. 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
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. 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
clients. 1.6 Followed workplace code of conduct. 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
2.1. 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
2.2. organizational policies, national legislation and workplace policies in relation to IT sector 2.3. Law and regulations pertaining to proprietary rights
2.2. organizational policies, national legislation and workplace policies in relation to IT sector 2.3. Law and regulations pertaining to proprietary rights
0.11
0.11
2. Underpinning 2.4. Quality processes for products and services
knowledge 2.5. Procedure of provided to client information
2.6. Method of estimating for time, cost and deliver
products and services
2.7. Workplace code of conduct in IT sector
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
3. Underpinning Skills 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

	4.1 Commitment to occupational health and safety
4. Underpinning	4.2 Promptness in carrying out activities
	4.3 Sincere and honest to duties
	4.4 Environmental concerns
	4.5 Eagerness to learn
Attitudes	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. Resource	5.1 Relevant tools, Equipment, software and facilities
Implications	needed to perform the activities.
	5.2 Required learning materials.
	Methods of assessment may include but not limited to:
6. Methods of	6.1 Written test
	6.2 Demonstration
Assessment	6.3 Oral questioning
	6.4 Portfolio
	7.1 Competency assessment must be done in a
7. Context of	training center or in an actual or simulated work
	place after completion of the training module
Assessment	7.2 Assessment should be done by NSDA certified
	assessor

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The Occupation Specific Competencies

Unit Code and Title	OSU01I08L3V1: 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 Bold and Underlined terms are elaborated in the Range of Variables			
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 Required designs are specified. 4.2 Appropriate shape and size are identified. 4.3 Content area is defined. 4.4 Contents are inserted and composed. 4.5 Shapes 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 file format. 			
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	6.1 Source of carrier opportunities are identified.
places	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.
	1 ayment concentrations 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. Required designs	2.1 Business card
	2.2 ID card
	2.3 Letterhead
	2.4 Logo/ Monogram
	2.5 Cash memo/ Invoice Form
	2.6 Money receipt 2.7 Banner
	2.8 Flyer / leaflet
	2.9 National Flag
3. Shape	3.1 Squire
o. onapo	3.2 Rectangle
	3.3 Ellipses
	3.4 Polygon
4. Contents	4.1 Text
	4.2 Image
	4.3 Vector
	4.4 Logo
5. File format	5.1 .ai
	5.2 .eps
	5.3 .pdf
	5.4 .jpeg 5.5 .png
	5.6 .gif
6. Structure of graphics	6.1 Vector based
0. Structure of graphics	6.2 Bitmap based
	0.2 Bittiap basea
7. Software for graphic	7.1 Adobe Photoshop
design	7.2 Adobe illustrator
	7.3 Adobe in design
	7.4 Corel draw
8. Opportunities	8.1 Exhibitions
	8.2 Floor talks at galleries
	8.3 Competitions 8.4 Master classes
	8.5 Trade fairs, expositions
	U.U Trade lails, expositions

	8.6 Websites
9. Strategies	 9.1 Working effectively with supervisor 9.2 Participating in professional development and other learning opportunities 9.3 Undertaking training courses 9.4 Practicing 9.5 Participating in relevant groups or associations 9.6 Experimenting/exploring 9.7 Communicating with peers 9.8 Being involved in a range of relevant design activities

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

Critical aspects of competency	 Assessment required evidence that the candidate: 1.1 Identified the basic design guidelines in graphic designing. 1.2 Identified and used relevant journals, magazines, catalogues and other media when developing graphic design.
2. Underpinning knowledge	 2.1 Opportunities to improve technical skills in basic design 2.2 Capabilities to develop technical skills in basic design using materials, tools and equipment 2.3 Types of journals, magazines, catalogues and other media relevant to stimulate technical and professional development in basic design guidelines 2.4 Methods of develop basic design ideas 2.5 Interpretation of basic design guidelines 2.6 Opportunities to develop own practice and keep informed about current design trends Ram (memory) installation procedure 2.7 Peripherals installation 2.8 Bios and CMOS setting modification
3. Underpinning Skills	 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	 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	Methods of assessment may include but not limited to: 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 a training center or in an actual or simulated workplace after completion of the training module 7.2 Assessment should be done by NSDA certified assessor

Unit Code and Title	OSU02I08L3V1: 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		
	Bold and Underlined terms are elaborated in the Range of Variable		
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.		
	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 Font Attributes are applied as per requirement.		
	2.5 Zoom In-Out and Panning are used.		
	2.6 Design for further use is saved.		
Review and Finalize design works	4.1 Artwork and Preview is used.		
design works	4.2 Layer Hide-Unhide option is used.		
	4.3 Appropriate marks are used.		
	4.4 Outline and Group Created.4.5 appropriate File Format Saved.		
	4.5 appropriate <u>File Format</u> Saved.4.6 The image to <u>recipient</u> is transferred.		
Range of Variables	4.0 The image to <u>recipient</u> stansiened.		
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		

	Marks	0.4	O
2			Crop marks
2		2.2.	S
2		2.3.	Creasing
٥.	Unit	3.1.	Inch
		3.2.	Centimetre
		3.3.	Millimetre
		3.4.	Pixel
		3.5.	Picas
4.	Contents	4.1	Text
		4.2	Image
		4.3	Vector
		4.4	Logo
5.	Font Attributes	5.1	Font Face
		5.2	Font Style
		5.3	Font Size
		5.4	Alignment
		5.5	Case
		5.6	Indent
		5.7	Leading
		5.7 5.8	_
			Tracking
		5.8 5.9	Tracking
		5.8 5.9	Tracking Baseline Shift Expand
		5.8 5.9 5.10 5.11	Tracking Baseline Shift Expand
6.	File Format	5.8 5.9 5.10 5.11	Tracking Baseline Shift Expand Condensed Tab Setting
6.	File Format	5.8 5.9 5.10 5.11 5.12	Tracking Baseline Shift Expand Condensed Tab Setting
6.	File Format	5.8 5.9 5.10 5.11 5.12 6.1 6.2	Tracking Baseline Shift Expand Condensed Tab Setting
6.	File Format	5.8 5.9 5.10 5.11 5.12 6.1 6.2	Tracking Baseline Shift Expand Condensed Tab Setting .ai .eps .pdf
			_

	6.6	.png		
7. Recipient	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.				
Critical aspects of Assessment required evidence that the candi				
competency	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	2.1.	Different Tools and Palette		
knowledge	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
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		wing resources must be provided –
	5.1	Relevant tools, Equipment, software and
	5.2	facilities needed to perform the activities. Required learning materials.
6. Methods of	6.1	Demonstration with oral questioning
assessment	6.2	Direct observation
	6.3	Written test
	6.4	Portfolio
	6.5	Log book
	7.1	Competency assessment must be done in a
		training center or in an actual or simulated
7. Context of Assessment		workplace after completion of the training module
	7.2	Assessment should be done by NSDA certified
		assessor
1		

Unit Code and Title	OSU03I08L3V1: 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			
	Bold and underlined terms are elaborated in the Range of Variable.			
Separate Images	1.1 Image is selected			
	1.2 Required tool is selected			
	1.3 Clipping path is created			
	1.4 Image is separated from background			
Create a composition	2.1 New document is created			
	2.2 Images are pasted for edit			
	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</u> <u>format</u>			
4. Apply color Correction	4.1 Color correction methods are identified			
	4.2 Appropriate image mode 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 file format			
	4.6 Final image is transferred to <u>recipient</u>			
5. Apply Effects	5.1 Identify appropriate <u>effect options</u>			
	5.2 Proper <u>image mode</u> 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			

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. Retouch tools	2.1 Healing brush tool				
	2.2 Spot Healing				
	2.3 Patch Tool				
	2.4 Clone Stamp Tool				
3. File format	3.1 .psd				
o. The format	3.2 .jpeg				
	3.3 .png				
	3.4 .tiff				
	3.5 .gif				
4. Colour correction	4.1 Brightness and Contrast				
methods	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				
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6. Edit	6.1 Transform
	6.2 Transparency
	6.3 Gradients
	6.4 Strokes
	6.5 Adjustment
	6.6 Crop
	6.7 Filter
	6.8 outline
	6.9 Blending option
7. Effect options	7.1 Filter
	7.2 Blending Options
	7.3 Plugins
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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	Assessment required evidence that the candidate
competency	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	4.4	
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	The f	ollowing 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	Demonstration with oral questioning
	6.2	Direct observation
	6.3	Written test
	6.4	Portfolio
7 Context of assessment	7.1	Competency assessment must be done in a training
		center or in an actual or simulated work place after
		completion of the training module
	7.2	Assessment should be done by NSDA certified assessor

Unit Code and Title	OSU04I08L3V1: 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 Bold and Underlined terms are elaborated in the Range of Variables		
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 2.7 Cyber link Photo Director 2.8 Correl Paint shop Pro 2.9 Xara 2.10 Serif Photo Plus
3. Pencil tools	3.1 Pen 3.2 Brush 3.3 Eraser
4. Path	4.1 Straight lines4.2 Curve4.3 Closed shapes
5. Basic shape	5.1 Circle5.2 Square5.3 Rectangle5.4 Pyramid5.5 Oval
6. Steps in preparing mockup	6.1 Start with product shots6.2 Prepare a separate layer6.3 Make screen layer6.4 Housekeeping/organizing work
7. Steps in setting up smart object	 7.1 Convert layers to smart object 7.2 Re-size the smart object 7.3 Make a duplicate of smart object layer 7.4 Drag smart object copy to laptop screen layer 7.5 Make another copy and place it above the screen layer 7.6 Clip the smart objects to their respective screen
Steps in editing smart object	8.1. Double click on smart object thumbnail to edit 8.2. Edit the smart object

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 Made screen layer1.2 Completed mockup1.3 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	Methods of assessment may include but not limited to: 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 a training center or in an actual or simulated work place after completion of the training module 7.2 Assessment should be done by NSDA certified assessor 		

Unit Code and Title	OSU05l08L3V1: 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
	<u>Underlined Strong</u> terms are elaborated in the Range of Variable
Verify design work	Design work is opened in relevant Software.
	Design is verified against the design brief.
	Design is adjusted as required.
Prepare output template	Design output is interpreted.
	Template for the output is created.
	<u>Contents</u> are set accordingly.
	<u>Printing Marks</u> are set.
	Output Templates are saved.
Prepare for final output	Text are outlined to objects.
	Design Objects are grouped.
	Colors are separated according to output.
	Final designs are saved.
Range of Variables	
Variable	Range (May include but not limited to:)
1. Relevant Software	2.11 Adobe Photoshop
	2.12 Adobe Illustrator
	2.13 Adobe InDesign 2.14 CorelDraw
	2.15 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.

3. Contents	3.1 Text
	3.2 Image
	3.3 Vector
	3.4 Smart Object
4. Printing Marks	4.1 Crop Marks (trim marks)
	4.2 Bleed Marks
	4.3 Registration Marks
	4.4 Color bars (densitometer scales)
	4.5 Star target

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

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Critical Aspects of Competency	Asse: 1.1 1.2 1.3	Soment required evidence that the candidate: Verified design against the design brief Set printing Marks Separated colors according to output
		J J
Underpinning Knowledge	2.1 2.2 2.3 2.4	Design brief Printing marks Output Outline
	2.5	Color separation
3. Underpinning Skills	3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8	Verifying design against the design brief Adjusting design as required Creating template for the output Setting contents accordingly Setting printing Marks are Outlining text to objects Grouping design objects Separating colors according to output
4. Required Attitudes	4.1 4.2 4.3 4.4 4.5 4.6 4.7	Commitment to occupational health and safety Promptness in carrying out activities Sincere and honest to duties Environmental concerns Eagerness to learn Tidiness and timeliness Respect for rights of peers and seniors in workplace 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	Methods of assessment may include but not limited to: 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 a training center or in an actual or simulated work place after completion of the training module 7.2 Assessment should be done by NSDA certified assessor

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

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

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This Competency Standard for **Graphic Design and Development** 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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