



COMPETENCY STANDARDS & ASSESSMENT GUIDE FOR WEB DEVELOPMENT -DOT NET

Skills for Employment Investment Program (SEIP) Finance Division, Ministry of Finance

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The Competency Standards for Web Development Dot Net is a document for the development of curricula, teaching and learning materials, and assessment tools. It also serves as the document for providing trainings consistent with the requirement of industry in order for individuals who passed through the set standard via assessment would be qualified and settled for a relevant job.

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INTRODUCTION:

The Skills for Employment Investment Program (SEIP) Project of the Finance Division of the Ministry of Finance has embarked on a project which aims to qualitatively and quantitatively expand the skilling capacity of identified public and private training providers by establishing and operationalizing a responsive skill eco system and delivery mechanism through a combination of well-defined set of funding triggers and targeted capacity support.

Among the many components of the project, one is to promote a Market Responsive Inclusive Skills Training Delivery program. Key priority economic growth sectors identified by government have been targeted by the project to improve current job skills along with up-skilling of the existing workforce to ensure 'required skills to industry standards'. Training providers are encouraged, supported to work with the industry to address identified skills to enable industry growth, and increased employment through the provision of market responsive inclusive skills training programs. Priority sectors were identified to adopt a demand driven approach to training with effective inputs from Industry Skills Councils (ISCs), Employer Associations and Employers.

This document is developed to improve skills in accordance with the job roles and skill sets of the occupation and ensure that the required skills are aligned to industry requirements.

The document details the format, sequencing, wording and layout of the Competency Standard for an occupation that comprised 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 a job or occupation or trade corresponding to the standard of performance required in the workplace.

Competency standard:

- Provides a consistent and reliable set of components for training, recognizing and assessing people's skills, and may have optional support materials.
- Enables industry recognized qualifications to be awarded through direct assessment of workplace competencies
- Encourages the development and delivery of flexible training which suits individual and industry requirements
- Encourages learning and assessment in a work-related environment that leads to verifiable workplace outcomes.

A working group who comprised national and international process experts develops competency Standards and the participation of experts from the industry to identify the competencies required of an occupation in a particular sector.

Competency Standards describe the skills, knowledge and attitude needed to perform effectively in the workplace. Competency Standards acknowledge that people can achieve vocational and technical 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 organization or any combination of these.

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:

- Reference to Industry Sector, Occupational Title and Occupational Description
- Unit code
- Unit title
- Unit descriptor
- Unit of Competency
- Elements and performance criteria
- Variables and range statement
- Evidence guides

Together all the parts of a Unit of Competence:

- Describe a work activity
- Guide the assessor in determining whether the candidate is competent.

Identification and validation of units of competency and elements for this occupation were made by expert of various construction companies through an industry consultative workshop held at the Bangladesh Association of Software and Information Services (BASIS)20TH of March 2016.

Profile of experts and facilitators who participated in the Competency Verification and Validation Workshop are given below.

Competency Verification-Validation Experts:

Name	Company	Job Position
Mr. Md. Mokhlesur Rahman	SPONDON	CEO
Mr. MdFaruk Hossain	Bording Vista Ltd.	Team Leader, Graphic Design
Mrs. Sayma Begum	BITM	Asst. Trainer
Mr. ZohirulAlamTiemoon	Nerd Castle, Ltd	CEO
Mr. Tayabur Rahman Masud	BITM	Asst. Trainer
Mr. MianZadidRusdid	BITM	Lead Trainer
Mr. Khondoker Ali AsgorPavel	BitBirds Solution	CEO
Md. Hasib	BITM	Executive,IT
Sifat-E-Tanzim	Liveoutsource,LTd.	Software Engineer

Workshop Facilitators:

Md. Mohiuzzaman	SEIP	Course Specialist
EmeterioCedillo, Jr.	SEIP	International Specialist
Mr. Muhammad Mofizur Rahman	SEIP	National Consultant

The ensuing sections of this document comprise a description of the respective occupation with all the key components of a Unit of Competency:

- A chart with an overview of all Units of Competency for the respective occupation including the Unit Codes and the Unit of Competency titles and corresponding Elements.
- The Competency Standards that include the Unit of Competency, Unit Descriptor, Elements and Performance Criteria, Range of Variables, Curricular Content Guide and Assessment Evidence Guide.

COMPETENCY PROFILE/CHART for Web Development Dot Net

UNITS OF COMPETENCY

ELEMENTS

A. Generic (Basic) Competencies

PERFORM COMPUTATIONS USING BASIC MATHEMATICAL CONCEPTS (SEIP-IT-WDT -1-G)

Identify calculation requirements in the workplace.

Select appropriate mathematical methods/concepts for the calculation.

Use tool/instrument to perform calculations.

APPLY OCCUPATIONAL HEALTH AND SAFETY (OH&S) PRACTICES IN THE WORKPLACE (SEIP-IT-WDT-2-G)

Identify OHS policies and procedures

Apply personal health and safety practices

Report hazards and risks

Respond to emergencies

COMMUNICATE IN ENGLISH IN THE WORKPLACE

(SEIP-IT-WDT-3-G)

Read and understand Workplace documents in English

Write simple workplace written communications in English.

Listen and comprehend to English conversation

Perform conversations in English language

WORK IN A SELF-DIRECTED TEAM.

(SEIP-IT-WDT-4-G)

Identify team goals and processes.

Communicate and cooperate with team members.

Work as a team member

Solve problems as a team member

B. Sector Specific (Common) Competencies

OPERATE A PERSONAL COMPUTER AND USE OFFICE APPLICATIONS (SEIP-IT-WDT-1-S) Start and shut down the computer

Access basic system information

Work with files, folders and user application programs

Print documents

TYPE DOCUMENTS IN BANGLA AND ENGLISH

(SEIP-IT-WDT-2-S)

Install the application

Select appropriate tools and keyboard layout

Type document using different style format

SEND AND RETRIEVE INFORMATION USING EMAIL, WEB BROWSERS, VIDEO/AUDIO TOOLS (SEIP-IT-WDT-3-S)

Access the internet

Search the internet

Research and apply 'netiquette' principles Organize and send message

COMPLY TO ETHICAL STANDARDS IN IT WORKPLACE (SEIP-IT-WDT-4-S) Uphold the interests of clients

Deliver quality products and services

Demonstrate professionalism at work

Obey workplace code of conduct.

C. Occupation Specific (Course) Competencies

APPLY BASIC C-SHARP (C#)

(SEIP-IT-WDT-1-O)

Declare, assign and show value of a variable in console

Apply with C# basic data type

Control business logic using "if-thenelse"

Work with various loop

Work with array, array list and list

WORK WITH OBJECT **ORIENTED PROGRAMMING** (OOP) BASICS (SEIP-IT-WDT-2-O)

Create user-defined type and create object

Create association relationship between two classes

Create inheritance relationship between classes

Create inheritance relationship between classes

USE CLIENT SIDE SCRIPTING LANGUAGES

(SEIP-IT-WDT-3-O)

Define the working principle of the web

Use HTML (Hypertext Mark-up Language)

Implement Cascading Style Sheets (CSS) in a website

Use JavaScript in a website

WORK WITH DATABASE: MY SQL SERVER

(SEIP-IT-WDT-4-O)

Discuss the basics of Databases

Differentiate different Database Management Systems (DBMS)

Create Database of a Website in a Database Management System. Create and use stored procedure

PERFORM WEB PROGRAMMING BASICS USING ASP.NET WEB FORM (SEIP-IT-WDT-5-O)

Identify working principle of ASP.Net web form

Make UI layout for information entry and view.

APPLY WEB PROGRAMMING BASICS USING ASP. NET

(SEIP-IT-WDT-6-O)

Apply the basic terminologies of MVC (model-viewcontroller)

Utilized ASP.Net MVC

Work with Database Model and View

IDENTIFY SOFTWARE PROJECT MANAGEMENT & PERFORM PROJECT WORK (SEIP-IT-WDT-7-O)

Develop a dynamic website in ASP.Net Develop user story

Create project presentation

Develop awareness about rights

Units & Elements at Glance:

Generic (Basic) Competencies (46 hrs.)

CODE	UNIT OF COMPETENCY		ELEMENTS OF COMPETENCY	DURATION	
SEIP-IT-WDT-1-G	PERFORM COMPUTATIONS	1.	Identify calculation requirements in the	14 hrs.	
	USING BASIC		workplace.		
	MATHEMATICAL CONCEPTS	2.	Select appropriate mathematical		
			methods/concepts for the calculation.		
		3.	Use tool/instrument to perform		
			calculations.		
SEIP-IT-WDT-2-G	APPLY OCCUPATIONAL	1.	Identify OHS policies and procedures.	10 hrs.	
	HEALTH AND SAFETY (OHS)	2.	Apply personal health and safety practices.		
	PRACTICES IN THE	3.	Report hazards and risks.		
	WORKPLACE	4.	Respond to emergencies.		
SEIP-IT-WDT-3-G	COMMUNICATE IN	1.	Read and understand workplace	14 hrs.	
	ENGLISH IN THE		documents in English.		
	WORKPLACE	2.	Write simple workplace communications in		
			English.		
		3.	Listen and comprehend to English		
			conversations.		
		4.	Perform conversations in English language.		
SEIP-IT-WDT-4-G	WORK IN A SELF-DIRECTED	1.	Identify team goals and work processes.	8 hrs.	
	TEAM	2.	Communicate and cooperate with team		
			members.		
		3.	Work as a team member.		
		4.	Solve problems as a team member		
	Total Hour 46 hrs.				

Sector Specific (Common) Competencies (64 hrs.)

UNIT OF COMPETENCY		ELEMENTS OF COMPETENCY	DURATION
OPERATE A PERSONAL	1.	Start and shut down the computer.	24 Hrs
COMPUTER AND USE	2.	Access basic system information.	
OFFICE APPLICATIONS	3.	Work with files, folders and user	
		application programs.	
	4.	Print documents	
TYPE DOCUMENTS IN	1.	Install the application.	12 hrs.
BANGLA AND ENGLISH	2.	Select appropriate tools and keyboard	
		layout.	
	3.	Type document using different style	
		format.	
SEND AND RETRIEVE	1.	Access the internet.	16 Hrs.
INFORMATION USING	2.	Search the internet.	
EMAIL, WEB BROWSERS,	3.	Research and apply 'netiquette' principals.	
VIDEO/AUDIO TOOLS	4.	Organize and send message	
COMPLY TO ETHICAL	1.	Uphold the interests of clients	12 Hrs.
STANDARDS IN IT	2.	Deliver quality products and services.	
	OPERATE A PERSONAL COMPUTER AND USE OFFICE APPLICATIONS TYPE DOCUMENTS IN BANGLA AND ENGLISH SEND AND RETRIEVE INFORMATION USING EMAIL, WEB BROWSERS, VIDEO/AUDIO TOOLS COMPLY TO ETHICAL	OPERATE A PERSONAL COMPUTER AND USE OFFICE APPLICATIONS 3. 4. TYPE DOCUMENTS IN BANGLA AND ENGLISH 2. SEND AND RETRIEVE INFORMATION USING EMAIL, WEB BROWSERS, VIDEO/AUDIO TOOLS COMPLY TO ETHICAL 1.	OPERATE A PERSONAL COMPUTER AND USE OFFICE APPLICATIONS 3. Work with files, folders and user application programs. 4. Print documents TYPE DOCUMENTS IN BANGLA AND ENGLISH 2. Select appropriate tools and keyboard layout. 3. Type document using different style format. SEND AND RETRIEVE INFORMATION USING EMAIL, WEB BROWSERS, VIDEO/AUDIO TOOLS COMPLY TO ETHICAL 1. Start and shut down the computer. 2. Access basic system information. 3. Work with files, folders and user application programs. 4. Print documents 1. Install the application. 2. Select appropriate tools and keyboard layout. 3. Type document using different style format. 4. Access the internet. 5. Search the internet. 6. Search the internet. 7. Search and apply 'netiquette' principals. 8. Organize and send message 1. Uphold the interests of clients

		WORKPLACE	3. 4.	Demonstrate professionalism at work. Obey workplace code of conduct.	
Ì	Total Hour				64 hrs.

Occupation Specific (Core) Competencies (250 hrs.)

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CODE	UNIT OF COMPETENCY		ELEMENTS OF COMPETENCY	DURATION
SEIP-IT-WDT-1-O	APPLY BASIC C-sharp (C#)	1.	Declare, assign and show value of a	26Hrs.
			variable in console.	
		2.	Apply with C# basic data type.	
		3.	Control business logic using if-then-else.	
		4.	Work with various loops.	
		5.	Work with array, array list and list.	
SEIP-IT-WDT-2-O	WORK WITHOBJECT	1.	Create user-defined type and create object.	32 Hrs.
	ORIENTED PROGRAMMING	2.	Create association relationship between	
	(OOP) BASICS		two classes.	
		3.	Create inheritance relationship between	
			classes.	
		4.	Work with abstract class, method and	
			interface.	
SEIP-IT-WDT-3-O	USE CLIENT SIDE SCRIPTING	1.	Define the working principle of the web.	34 Hrs.
	LANGUAGES	2.	Use HTML (Hypertext Mark-up Language)	
		3.	Implement Cascading Style Sheets (CSS) in a	
			website.	
		4.	Use JavaScript in a website.	
SEIP-IT-WDT-4-O	WORK WITH DATABASE:	1.	Discuss the basics of Databases.	32Hrs.
	MY SQL SERVER	2.	Differentiate different Database	
			Management Systems (DBMS).	
		3.	Create Database of a Website in a	
			Database Management System.	
		4.	Create and use stored procedure.	
SEIP-IT-WDT-5-O	PERFORM WEB	1.	Identify working principle of ASP.Net web	32 Hrs.
	PROGRAMMING BASICS		form.	
	USING ASP.NET WEB FORM	2.	Make UI layout for information entry and	
			view.	
SEIP-IT-WDT-6-O	APPLY WEB	1.	Apply the basic terminologies of MVC	44 Hrs.
	PROGRAMMING BASICS		(model–view–controller)	
	USING ASP. NET MVC	2.	Utilized ASP.Net MVC.	
		3.	Work with Database Model and View	
SEIP-IT-WDT-7-O	IDENTIFY SOFTWARE	1.	, ,	50 Hrs.
	PROJECT MANAGEMENT	2.	, ,	
	AND PERFORM PROJECT	3.	Create project presentation	
	WORK	4.	Develop awareness about rights	
	Tota	ıl Ho	ours	250 hrs.

COMPETENCY STANDARD: WEB DEVELOPMENT DOT NET

A. The Generic (Basic Competencies)

Unit of Competency:	Nominal Duration:	Unit Code:
PERFORM COMPUTATIONS USING BASIC	14 hrs.	SEIP-IT-WDT-1-G
MATHEMATICAL CONCEPTS		

Unit Descriptor:

This unit of competency requires the knowledge, skills and attitude to perform computations using basic mathematical concepts in the workplace. It specifically includes the tasks of identifying calculation requirements in the workplace, selecting appropriate mathematical method/concept for the calculation and using appropriate instruments tools to carry out calculation.

Elements and Performance Criteria:

(Terms in the performance criteria that are written in **bold and underlined** are elaborated in the range of variables).

Elements of Competency	Performance Criteria
Identify calculation requirements in the workplace	1.1 <u>Calculation requirements</u> are identified from <u>workplace</u> <u>information.</u>
2. Select appropriate mathematical methods/concepts for the calculation.	2.1 <u>Appropriate method</u> is selected to carry out the calculation requirements.
Use tool/instrument to perform calculations	3.1 Calculations are completed using appropriate tools and instruments.

Range of variables:

Variable	Range		
	May include but not limited to:		
1. Calculation requirements.	1.1 Area		
	1.2 Height		
	1.3 Length/Breadth/thickness		
	1.4 Diameter		
	1.5 Weight		
	1.6 Capacity		
	1.7 Time		
	1.8 Temperature.		
	1.9 Material usage		
	1.10 Speed		
	1.11 Costing		
	1.12 Mass		
	1.13 Density		
2. Workplace information	2.1 Mechanical Plan		
	2.2 Design		
	2.3 Working drawing		

	2.4 Verbal instructions
	2.5 Job order
3. Appropriate method	3.1 Addition
	3.2 Subtraction
	3.3 Division
	3.4 Multiplication
	3.5 Conversion
	3.6 Percentage and ratio calculation
	3.7 Simple equation
4. Tools/instruments	4.1 Calculator
	4.2 Computer

Curricular Content Guide

	-
1. Underpinning Knowledge	1.1 Numerical concept
	1.2 Basic mathematical methods such as addition, subtraction,
	multiplication, division, and percentage.
	1.3 Mathematical language, symbols and terminology.
	1.4 Measuring units
	1.5 Knowledge of computer application
2. Underpinning Skills	2.1 Adding numbers
	2.2 Subtracting numbers
	2.3 Multiplying numbers.
	2.4 Dividing numbers.
	2.5 Measuring of linear
	2.6 Using of mathematical language, symbols, terminology and
	technology.
	2.7 Measuring of different physical parameter.
	2.8 Calculating geometrical parameters: angle, parallelism,
	perpendicularity, area and volume
3. Underpinning Attitudes	3.1 Commitment to occupational health and safety practices
	3.2 Promptness in carrying out activities.
	3.3 Tidiness and timeliness.
	3.4 Respect to peers, sub-ordinates and seniors in workplace.
	3.5 Environmental concern.
	3.6 Sincerity and honesty
4. Resource Implications	The following resources must be provided.
	4.1 Stationeries
	4.2 Consumables
	4.3 Calculators
	4.4 Computers
	4.5 Measuring tape

Assessment Evidence Guide

1. Critical Aspects of	Assessment required evidence that the candidate:		
Competency	1.1 Identified calculation requirements from workplace		
	information.		
	1.2 Selected appropriate method to carry out the calculation		
	requirements.		
	1.3 Completed calculations using appropriate tools/instruments.		
2. Methods of Assessment	Methods of assessment may include but not limited to:		
	2.1 Written test		
	2.2 Oral questioning		
	2.3 Demonstration.		
5. Context of Assessment	3.1 Competency assessment must be done in a training center or in		
	an actual or simulated work place after completion of the		
	training module.		

Unit of Competency:	Nominal Duration:	Unit Code:
APPLY OCCUPATIONAL HEALTH AND SAFETY	10 hrs.	SEIP-IT-WDT-2-G
(OHS) PRACTICES IN THE WORKPLACE		

Unit Descriptor:

This unit covers the knowledge, skills and attitudes required to apply occupational health and safety (OH&S) practices in the workplace. It specifically includes the tasks of identifying OHS policies and procedures, applying personal health and safety practices, reporting hazards and risks and responding to emergencies.

Elements and Performance Criteria:

(Terms in the performance criteria that are written in **bold and underlined** are elaborated in the range of variables).

Elements of Competency	Performance Criteria
1. Identify OHS policies and	1.1 OHS policies and safe operating procedures are read and
procedures	understood.
	1.2 Safety signs and symbols are identified and followed.
	1.3 Emergency response, evacuation procedures and other
	contingency measures are determined.
2. Apply personal health and	2.1 OHS policies and procedures are followed and practiced.
safety practices	2.2 Personal Protective Equipment (PPE) is selected and used.
	2.3 Personal hygiene is maintained.
3. Report hazards and risks	3.1 Hazards and risks are identified, assessed and controlled.
	3.2 Incidents arising from hazards and risks are reported to
	authority.
	3.3 Corrective actions are implemented to correct unsafe
	conditions in the workplace.
4. Respond to emergencies	4.1 Alarms and warning devices are responded.
	4.2 Emergency response plans and procedures are implemented.
	4.3 First aid procedure is applied during emergency situations.

Range of Variables

Variable	Range
	May include but not limited to:
1. OHS policies	1.1 International OHS requirements
	1.2 Bangladesh standards for OHS
	1.3 Building Code
	1.4 Fire Safety Rules and Regulations
	1.5 Light Engineering Industry Guidelines
2. Personal Protective	2.1 Apron
Equipment (PPE)	2.2 Gas Mask
	2.3 Gloves
	2.4 Safety shoes
	2.5 Helmet
	2.6 Face mask
	2.7 Overalls

	2.8 Goggles and safety glasses
	2.9 Ear plugs
	2.10 Sun block
	2.11 Chemical/Gas masks
3. Hazards and risks	3.1 Chemical hazards.
	3.2 Biological hazards.
	3.3 Physical Hazards.
	3.3.1 Machine hazards.
	3.3.2 Materials hazards.
	3.3.3 Tools and Equipment hazards.
4. Emergency response plans	4.1 Firefighting procedures
and procedures	4.2 Earthquake response procedures
	4.3 Evacuation procedures
	4.4 Medical and first aid
5. First aid procedure	5.1 Washing of open wound
	5.2 Washing chemically infected area
	5.3 Applying bandage
	5.4 Tourniquet
	5.5 Applying CPR (Cardiopulmonary Resuscitation)
	5.6 Taking appropriate medicine

Curricular Evidence Guide:

1. Underpinning Knowledge	1.1 OHS workplace policies and procedures.
	1.2 Work safety procedures.
	1.3 Emergency procedures.
	1.3.1 Firefighting.
	1.3.2 Earthquake response.
	1.3.3 Explosion response.
	1.3.4 Accident response.
	1.4 Types of (biological, chemical and physical) and their effects.
	1.5 PPE types and uses.
	1.6 Personal hygiene practices.
	1.7 OHS awareness.
2. Underpinning Skills	2.1 Identifying OHS policies and procedures
	2.2 Following personal work safety practices
	2.3 Reporting hazards and risks
	2.4 Responding to emergency procedures
	2.5 Maintaining physical well-being in the workplace
	2.6 Performing first aids.
	2.7 Performing basic firefighting accessories using fire extinguishers
	2.8 Applying basic first aid procedures
3. Underpinning Attitudes	3.1 Commitment to occupational health and safety practices
	3.2 Communication with peers, sub-ordinates and seniors in
	workplace.
	3.3 Promptness in carrying out activities.
	3.4 Tidiness and timeliness.

	3.5 Respect of peers, sub-ordinates and seniors in workplace.
	3.6 Environmental concern.
	3.7 Sincere and honest to duties
4. Resource Implications	4.1 Workplace (simulated or actual)
	4.2 PPEs
	4.3 Firefighting equipment
	4.4 Emergency response manual
	4.5 First aid kits

Assessment Evidence Guide:

1. Critical Aspects of	Assessment required evidence that the candidate:
Competency	1.1 Followed OHS policies and procedures.
	1.2 Selected and used personal protective equipment (PPE).
	1.3 Reported incidents arising from hazards and risks to authority
	1.4 Emergency response plans and procedures are implemented
	1.5 Applied basic first aid procedure
2. Methods of Assessment	Methods of assessment may include but not limited to:
	2.1 Written test
	2.2 Demonstration
	2.3 Oral questioning
	2.4 Interview
3. Context of Assessment	3.1 Competency assessment must be done in a training center or in
	an actual or simulated work place after completion of the
	training module.

Unit of Competency:	Nominal Duration:	Unit Code:
COMMUNICATE IN ENGLISH IN THE WORKPLACE	14 hrs.	SEIP-IT-WDT-3-G
Unit Descriptor:		

This unit covers the knowledge, skills and attitudes required to apply English communication in the workplace. It specifically includes work tasks of reading and understanding workplace documents in English, writing simple workplace written communications in English, listening and comprehending to English conversations and performing conversations in English.

Elements and Performance Criteria:

(Terms in the performance criteria that are written in **bold and underlined** are elaborated in the range of variables).

Elements of Competency	Performance Criteria
Read and understand workplace documents in English	1.1 Workplace documents are read and understood.1.2 Visual information is interpreted.
2. Write simple workplace communications in English	 2.1 Simple <u>routine workplace documents</u> are prepared using key words, phrases, simple sentences and <u>visual aids</u> are prepared. 2.2 Key information is written in the appropriate places in standard forms.
3. Listen and comprehend to English conversations	3.1 Active listening is demonstrated.
4. Perform conversations in English language	4.1 Conversation is performed in English with peers, customers and management to the required workplace standard.

Range of Variables

Variable	Range
	May Include but not limited to:
1. Routine workplace	1.1 Agenda
documents	1.2 Simple reports such as progress and incident reports
	1.3 Job sheets
	1.4 Operational manuals
	1.5 Brochures and promotional material
	1.6 Visual and graphic materials
	1.7 Standards
	1.8 OSH information
	1.9 Signs
2. Visual aids	2.1 Maps
	2.2 Diagrams
	2.3 Forms
	2.4 Labels
	2.5 Graphs
	2.6 Charts

Curricular Evidence Guide:

1. Underpinning Knowledge	1.1	Read workplace documents in English
	1.2	Write simple routine workplace documents in English
	1.3	Listen to conversation in English.
	1.4	Perform conversation in English.
	1.5	Interaction skills (i.e., teamwork, interpersonal skills, etc.).
	1.6	Job roles, responsibilities and compliances.
2. Underpinning Skills	2.1	Ability to read and understand workplace documents in English
	I	by using appropriate vocabulary and grammar, standard
		spelling and punctuation
	2.2	Ability to write simple routine workplace documents in English
		such as Schedules and agenda, job sheets, operational manuals
		and brochures and promotional material.
		Ability of listening in English and interpreting
		Ability to perform conversation in English with peers, customers
		and management to the required workplace standard.
	2.5	Work effectively with others.
		2.5.1 Listening and questioning skills
		2.5.2 Ability to follow simple directions
3. Underpinning Attitudes	3.1 C	Commitment to occupational health and safety practices
	3.2	Promptness in carrying out activities.
	3.3	Tidiness and timeliness.
	3.4	Respect of peers, sub-ordinates and seniors in workplace.
	3.5	Environmental concern.
	3.6	Sincere and honest to duties.
4. Resource Implications	The f	following resources must be provided:
		Work place Procedure
		Materials relevant to the proposed activity
		All tools, equipment, material and documentation required.
	4.4	Relevant specifications or work instructions

Assessment Evidence Guide:

1. Critical Aspects of	Assessment required evidence that the candidate:
Competency	1.1 Converse in English with peers and customers
	1.2 Made reports of workplace documents in English
2. Methods of Assessment	Methods of assessment may include but not limited to:
	2.1 Written test
	2.2 Demonstration
	2.3 Oral questioning
	2.4 Interview
3. Context of Assessment	3.1 Competency assessment must be done in a training center or in
	an actual or simulated work place after completion of the
	training module.

Unit of Competency:	Nominal Duration:	Unit Code:
WORK IN A SELF-DIRECTED TEAM	8 hrs.	SEIP-IT-WDT-4-G

Unit Descriptor:

This unit covers the knowledge, skills and attitudes required to work in a self-directed team. It specifically includes work tasks of identifying team goals and work processes, communicating and cooperating with team members, working and solving problems as a team member.

Elements and Performance Criteria:

(Terms in the performance criteria that are written in **bold and underlined** are elaborated in the range of variables).

Elements of Competency	Performance Criteria
 Identify team goals and work processes 	1.1 Team goals and collaborative decision making processes are identified.
	1.2 Roles and responsibilities of team members are identified.
	1.3 Relationships within team and with other workers are identified.
2. Communicate and	2.1 Effective interpersonal skills are used to interact with team
cooperate with team members.	members and to contribute to activities and objectives.
members.	2.2 Formal and informal forms of communication are used
	effectively to support team achievement.
	2.3 Diversity in character is respected and valued in team
	functioning.
	2.4 Views and opinions of other team members are understood and
	valued.
	2.5 Workplace terminology is used correctly to assist
	communication.
3. Work as a team member.	3.1 Duties, responsibilities, authorities, objectives and task
	requirements are identified and clarified with team.
	3.2 Tasks are performed in accordance with organizational and
	team requirements, specifications and workplace procedures.
	3.3 Team member's support with other members are made to
	ensure team achieves goals, awareness and requirements.
	3.4 Agreed reporting lines are followed using standard operating
	procedure.
4. Solve problems as a team	4.1 Current and potential problems faced by team are identified.
member	4.2 A solution to the problem is identified.
	4.3 Problems are solved effectively and the outcome of the
	implemented solution is evaluated.

Range of Variables

Variable	Range	
	May Include but not limited to:	
1. Forms of communication	1.1 Agenda	
	1.2 Simple reports such as progress and incident reports.	
	1.3 Job sheets.	
	1.4 Operational manuals.	

1.5	Brochures and promotional material.
1.6	Visual and graphic materials.
1.7	Standards.
1.8	OSH information.
1.9	Signs.

Curricular Evidence Guide:

Underpinning Knowledge	1.1 Team goals and collaborative decision making processes1.2 Roles and responsibilities of team members
	1.3 Relationships within team and with other workers
	1.4 Effective interpersonal skills to interact with team members
	1.5 Effective formal and informal forms of communication
	1.6 Value of diversity in team functioning.
	,
	1
	1.8 Team's duties, responsibilities, authorities, objectives and task requirements
	1.9 Support mechanism to other members of team to ensure
	achievements of goals.
	1.10 Methods of identifying current and potential problems faced
	by a team
	1.11 Effectively problems solving methods and evaluation of
	outcomes
2. Underpinning Skills	2.1 Identifying team goals and collaborative decision making processes
	2.2 Identifying roles and responsibilities of team members
	2.3 Identifying relationships within team and with other workers
	2.4 Using effective interpersonal skills to interact with team
	members and to contribute to activities and objectives
	2.5 Using formal and informal forms of communication
	2.6 Understanding and valuing views and opinions of other team
	members
	2.7 Performing tasks in accordance with organizational and team
	requirements, specifications and workplace procedures.
	2.8 Supporting other members of the team to ensure team
	achieves goals, awareness and requirements.
	2.9 Identifying current and potential problems faced by the team
	2.10 Identifying solutions to the problem
	2.11 Solving problems effectively and evaluating the outcome of the
	implemented solution
3. Underpinning Attitudes	3.1 Teamwork
	3.2 Promptness in carrying out activities.
	3.3 Tidiness and timeliness.
	3.4 Respect of peers, sub-ordinates and seniors in workplace.
	3.5 Sincere and honest to duties
4. Resource Implications	The following resources must be provided:
	4.1 Workplace (simulated or actual)
ı	,

4.2 Pens
4.3 Papers
4.4 Work books
4.5 Learning manuals

Assessment Evidence Guide:

1.	Critical Aspects of	Assessment required evidence that the candidate:	
	Competency	1.1 Identified team goals and work processes.	
		1.2 Communicated and cooperated with team members.	
		1.3 Worked as a team member.	
		1.4 Solved problems as a team member.	
2.	Methods of Assessment	Methods of assessment may include but not limited to:	
		2.1 Written test	
		2.2 Demonstration	
		2.3 Oral questioning	
		2.4 Interview	
3.	Context of Assessment	3.1 Competency assessment must be done in a training center or in an actual or simulated work place after completion of the training module.	

B. The Sector Specific (Common) Competencies

Unit of Competency:	Nominal Duration:	Unit Code:
OPERATE A PERSONAL COMPUTER AND USE	24 Hrs.	SEIP-IT-WDT-1-S
OFFICE APPLICATIONS		

Unit Descriptor:

This unit covers the knowledge, skills and attitudes required for a worker to operate a personal computer and use office applications. It specifically includes the tasks of starting and shutting down the computer, accessing basic system information, working with files, folders, and user application programs and printing documents.

Elements and Performance Criteria:

(Terms in the performance criteria that are written in **bold and underlined** are elaborated in the range of variables).

Elements of Competency	Performance Criteria
Start and shut down the	1.1 Peripheral devices are checked for correct connection, position
computer	and usability.
	1.2 Input <u>electrical parameters</u> of the device are Checked in
	accordance with peripheral device specification.
	1.3 Power of computer and other peripheral devices are Switched
	on.
	1.4 All open applications programs are logged out in accordance
	with standard application procedure.
	1.5 All open files/documents are exited.
	1.6 Personal computer is shut down in accordance with standard
	shut off procedure.
	1.7 The computer and other peripherals are switched off and
	unplugged power supply in accordance with standard
	procedure.
2. Access basic system	2.1 User name and password as prompted and note access, privacy,
information	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.
	2.5 On-line help functions are used as required.
3. Work with files, folders and	3.1 Desktop environment is navigated and manipulated.
user application programs	3.2 Desktop icons are selected, opened and closed to access
	application programs.
	3.3 Application windows and return to desktop original condition
	are manipulated.
	3.4 Basic directory and sub-directories are created and named.
	3.5 Attributes of directories are identified.
	3.6 Files for user and organization requirements are created and

		organized
	3.7	Data are entered into the desired office application in
		accordance with work requirements
	3.8	Files are copied and saved to available data storage/disk drives
4. Print documents	1.1	<u>Printer settings</u> , if required, are entered into the program
	1.2	Default printer is changed where necessary
	1.3	Print command is entered to effect printing of documents
	1.4	Adjust document print output where necessary

Range of Variables

Variable	Range (Includes 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 Pen 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. Electrical parameters	2.1 Voltage	
	2.1.1 AC volts	
	2.1.2 DC volts	
	2.2 Current (Ampere)	
	2.3 Phase	
	2.4 Cycle	
3. Applications programs	3.1 Office programs	
	3.2 Database programs	
	3.3 Word processors	
	3.4 Email programs	
	3.5 Internet browsers	

	3.6	System browsers
	3.7	Spreadsheets
4. Graphical User Interface	4.1	Desktop
(GUI)	4.2	Pointer
	4.3	Icons
	4.4	Menus
	4.5	Dialog boxes
	4.6	Scroll bars
	4.7	Toolbars
	4.8	Folders
	4.9	Wall papers
	4.10	Widgets
5. Operating system	5.1	Microsoft Windows
	5.2	Apple Mac OS
	5.3	Ubuntu Linux
	5.4	Google android
	5.5	iOS
6. Data storage	6.1	Random Access Memory (RAM)
	6.2	Floppy disk
	6.3	Hard disk
	6.4	CD disk
	6.5	DVD disk
	6.6	Flash drive
	6.7	External hard disk
7. Printer settings	7.1	Default Printer Brand and model
	7.2	Pages
	7.3	Printing sides
	7.4	Collate
	7.5	Page orientation
	7.6	Paper size
	7.7	Margins
	7.8	Number of pages per sheet

Curricular Content Guide

1. Underpinning Knowledge	1.1	Basic software operation
	1.2	Methods and procedure of checking input electrical parameters
	1.3	Steps/procedure n switching on the power of computer and other peripheral devices
	1.4	Computer functions
	1.5	Basic parts of a computer and various hardware components
	1.6	Organizational benchmarks for minimum typing skills,
		including speed and accuracy
	1.7	Creating and opening documents
	1.8	Formatting documents
	1.9	Inserting tables and images

	1.10 Saving, printing and closing documents	
	1.11 Mail merge function	
	1.12 Basic keyboarding skills	
	1.13 Storage devices and basic categories	
	1.14 Exiting procedure for open files/documents	
	1.15 Methods and procedure in witching on and off the computer	
	and other peripherals	
	1.16 Selection, opening and closing procedures of desktop icons to	
	access application programs	
	1.17 Method of creating and organizing files for user and	
	organization requirements	
	1.18 Data inputting techniques in accordance with standard typing	
	procedure and office application	
	1.19 Printing procedure and commands	
2. Underpinning Skills	2.1 Checking input electrical parameters of the device in	
	accordance with peripheral device specification.	
	2.2 Switching on power of computer and other peripheral devices	
	2.3 Exiting all open files/documents	
	2.4 Switching off the computer and other peripherals and	
	unplugging power supply in accordance with standard	
	procedure	
	2.5 Arranging, customizing and manipulating PC desktop	
	environment/graphical user interface (GUI) settings	
	2.6 Selecting, opening and closing desktop icons to access	
	application programs	
	2.7 Creating and organizing Files for user and organization	
	requirements	
	2.8 Entering data into the desired office application in accordance	
	with work requirements	
2 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.9 Entering print command to effect printing of documents	
3. Underpinning Attitudes	3.1 Eagerness to learn	
	3.2 Patience	
	3.3 Orderliness	
	3.4 Observance to OHS requirements	
4. Resource Implications	1.5 Workplace (simulated or actual)	
	1.6 Personal Computer and peripherals	
	1.7 Software	
	1.8 Pens	
	1.9 Papers	
	1.10 Work sheets	

Assessment Evidence Guide

1. Critical Aspects of	Assessment required evidence that the candidate:	
Competency	1.1 Checked input electrical parameters of the device in accordance	
	with peripheral device specification.	
	1.2 Switched on power of computer and other peripheral devices.	

	1.3 Exited all open files/documents.	
	1.4 Switched off the computer and other peripherals and	
	unplugged power supply in accordance with standard	
	procedure.	
	1.5 Arranged, customized and manipulated PC desktop	
	environment/graphical user interface (GUI) settings.	
	1.6 Selected, opened and closed desktop icons to access application	
	programs	
	1.7 Created and organized files for user and organization	
	requirements.	
	1.8 Entered data into the desired office application in accordance	
	with work requirements	
	1.9 Entered print command to effect printing of documents	
2. Methods of Assessment	Competency should be assessed by:	
	2.1 Written examination	
	2.2 Demonstration	
	2.3 Oral questioning	
	2.4 Workplace observation	
	2.5 Portfolio	
3. Context of Assessment	3.1 Competency assessment must be done in a training center or in	
	an actual or simulated work place after completion of the	
	training module	

Unit of Competency:	Nominal Duration:	Unit Code:
TYPE DOCUMENTS IN BANGLA AND	12 hrs.	SEIP-IT-WDT-2-S
ENGLISH		

Unit Descriptor:

This unit covers the skills, knowledge and attitudes required of a worker to type documents in Bangla and English. It specifically includes the tasks of installing the application, selecting appropriate tools and keyboard layout, typing document using different style format in both Bangla and English.

Elements and Performance Criteria:

(Terms in the performance criteria that are written in **bold and underlined** are elaborated in the range of variables).

Elements of Competency	Performance Criteria
1. Install the application	1.1 Specialized utilities for typing Bangla and English are installed and available.
Select appropriate tools and keyboard layout	2.1 Appropriate tools are selected for typing.2.2 Appropriate <u>keyboard layout</u> is selected.
Type document using different style format	3.1 Document content is typed with different format.3.2 Document is typed at a minimum speed in English and in Bangla in accordance with workplace requirements.

Range of Variables

Variable	Range (Includes but not limited to :)
1. keyboard layout	1.1 QWERTY
	1.2 Munir
	1.3 Bijoy
	1.4 Unijoy
	1.5 Phonetics
	1.6 Inscript
	1.7 Avro

Curricular Content Guide

1.	Underpinning Knowledge	1.1	Procedure for Installing specialized utilities on the computer
		1.2	Selection of tools used for typing
		1.3	Types of keyboard layout
		1.4	Techniques and procedure of Typing
		1.5	Standard typing speeds
2.	Underpinning Skills	2.1	Installing specialized utilities for typing Bangla and English
		2.2	Selecting appropriate tools for typing
		2.3	Selecting appropriate keyboard layout
		2.4	Typing document at a minimum speed of 40wpm in English and
		:	30wpm in Bangla
3.	Underpinning Attitudes	3.1	Eagerness to learn
		3.2	Tidiness and timeliness
		3.3	Concern to proper use computer and peripherals

	3.4 Orderliness
4. Resource Implications	4.1 Workplace (simulated or actual)
	4.2 Personal Computer and peripherals
	4.3 Software
	4.4 Pens
	4.5 Papers
	4.6 Work sheets

Assessment Evidence Guide

5.	Critical Aspects of	Assessment required evidence that the candidate:	
	Competency	1.1 Installed specialized utilities for typing Bangla and English.	
		1.2 Selected appropriate tools for typing.	
		1.3 Selected appropriate keyboard layout.	
		1.4 Typed document content.	
		1.5 Typed document at a minimum speed of 40wpm in English and	
		30wpm in Bangla.	
6.	Methods of Assessment	Competency should be assessed by:	
		2.1 Written examination	
		2.2 Demonstration	
		2.3 Oral questioning	
		2.4 Workplace observation	
		2.5 Portfolio	
7.	Context of Assessment	3.1 Competency assessment must be done in a training center or in	
		an actual or simulated work place after completion of the	
		training module.	

Unit of Competency:	Nominal Duration:	Unit Code:
SEND AND RETRIEVE INFORMATION USING	16 Hrs.	SEIP-IT-WDT-3-S
EMAIL, WEB BROWSERS, VIDEO/AUDIO TOOLS		

Unit Descriptor:

This unit covers the skills, knowledge and attitudes required of a worker to send and retrieve information using e-mail, web browsers and video/audio tools. It specifically includes the tasks of accessing the internet, searching in the internet, researching and applying 'netiquette' principals and organizing and sending messages.

Elements and Performance Criteria:

(Terms in the performance criteria that are written in **bold and underlined** are elaborated in the range of variables).

Elements of Competency	Performance Criteria
1. Access the internet	1.1 <u>Internet browser</u> is opened and a home page is set.
2. Search the internet	2.1 <u>Search engine</u> is located and selected.2.2 Search engine is used to search for information.
3. Research and apply 'netiquette' principals	 3.1 Netiquette' (or web etiquette) principles are applied when working with emails and browsing. 3.2 Rules of good online manners from at least two netiquette sites are reviewed.
4. Organize and send message	 4.1 Email application package is used to create a new Email. 4.2 Email message is sent. 4.3 Email messages are replied to and forwarded as appropriate, using the carbon copy and forward features. 4.4 Attachment and/or email is opened and saved to relevant folders. 4.5 Email message is deleted as required. 4.6 Inbox is sorted according to sender's name and date received.

Range of Variables

Mange of Variables	
Variable	Range (Includes but not limited to):
1. Internet browser	1.1 Microsoft Internet
	1.2 Mozilla Firefox
	1.3 Google chrome
	1.4 AOL explorer
	1.5 Apple safari
	1.6 Opera
	1.7 Rockmelt
	1.8 Maxthon
	1.9 Deepnet explorer
2. Search engine	2.1 Google
	2.2 Bing
	2.3 Yahoo search
	2.4 Ask

	2.5	Aol Search
	2.6	Wow
	2.7	WebCrawler
	2.8	Info space
	2.9	Info
	2.10	DuckDuckGo
	2.11	Dogpile
	2.12	Ahea
	2.13	ixQuick
3. Good online	3.1	Respecting others opinions
manners/netiquette	3.2	Tone down your language
	3.3	Picking the right tone
	3.4	Keeping a straight face
	3.5	Considering others' privacy
	3.6	Avoiding inappropriate material
	3.7	Be forgiving
	3.8	Thinking before hitting the send button
	3.9	Testing for clarity
	3.10	Conciseness is best
	3.11	Sticking to the point
	3.12	Thoughtless email
	3.13	Read first, write later
	3.14	Netspeak (DO NOT TYPE IN ALL CAPS)

Curricular Content Guide

1 Undersinging Knowledge	1.1 Dragadura for ananing internet browser and setting a home
Underpinning Knowledge	1.1 Procedure for opening internet browser and setting a home
	page
	1.2 Method of Locating and selecting search engine
	1.3 Procedure for searching for information Using search engine
	1.4 Principles of netiquette' or web etiquette
	1.5 Procedure for Replying to received email messages and
	forwarding
	1.6 Steps in opening attachment and saving to relevant folders
2. Underpinning Skills	2.1 Opening internet browser and setting a home page
	2.2 Locating and selecting search engine
	2.3 Using search engine to search for information
	2.4 Applying netiquette' (or web etiquette) principles when
	working with emails and browsing
	2.5 Replying to received email messages and forwarding as
	appropriate, using the carbon copy and forward features
	2.6 Sending Email message
	2.7 Opening and saving attachment and/or email to relevant
	folders
3. Underpinning Attitudes	3.1 Eagerness to learn
	3.2 Tidiness and timeliness
	3.3 Concern to proper use computer and peripherals

	3.4 Orderliness
	3.5 Observing netiquette
4. Resource Implications	4.1 Workplace (simulated or actual)
	4.2 Personal Computer and peripherals
	4.3 Software
	4.4 Pens
	4.5 Papers
	4.6 Work sheets

Assessment Evidence Guide

1. Critical Aspects of	Assessment required evidence that the candidate:	
Competency	 1.1 Opened internet browser and set as a home page. 1.2 Located and selected search engine. 1.3 Used search engine to search for information. 1.4 Applied netiquette' (or web etiquette) principles when working with emails and browsing. 1.5 Replied to Email messages and forwarded as appropriate, using the carbon copy and forward features. 1.6 Sent Email message. 	
	1.7 Opened and saved attachment and/or email to relevant folders.	
2. Methods of Assessment	Competency should be assessed by:	
	2.1 Written examination	
	2.2 Demonstration	
	2.3 Oral questioning	
	2.4 Workplace observation	
	2.5 Portfolio	
3. Context of Assessment	3.1 Competency assessment must be done in a training center or in	
	an actual or simulated work place after completion of the training module.	

Unit of Competency:	Nominal Duration:	Unit Code:
COMPLY TO ETHICAL STANDARDS IN IT	12 Hrs.	SEIP-IT-WDT-4-S
WORKPLACE		

Unit Descriptor:

This unit covers the skills, knowledge and attitudes required of a worker to comply to ethical standards in it workplace. It specifically includes the tasks of upholding the interests of clients, delivering quality products and services, demonstrating professionalism at work and obeying workplace code of conduct.

Elements and Performance Criteria:

(Terms in the performance criteria that are written in **bold and underlined** are described in the range of variables).

Elements of Competency	Performance Criteria
1. Uphold the interests of	1.1 <u>Customers/clients</u> views are respected at all times.
clients	1.2 Confidentiality of information is upheld in accordance with
	organizational policies, national legislation and workplace
	policies.
	1.3 Potential conflicts of interest are identified and involved parties
	of potential conflicts are notified.
	1.4 Proprietary rights of client/customer is asserted.
2. Deliver quality products	2.1 Products and services are provided that match the operational
and services	and financial needs of clients.
	2.2 Work is completed to industry and international standards.
	2.3 Quality processes are implemented when developing products
	and services.
3. Demonstrate	3.1 Work processes are delivered effectively and efficiently within
professionalism at work	known standards.
	3.2 Skills, knowledge and qualifications are presented in a
	professional manner.
	 Services and products developed by self and others are correctly delivered.
	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.
4. Obey workplace code of conduct.	4.1 Workplace code of conduct is followed.

Range of Variables

Kange of Variables		
Variable	Range (Includes but not limited to):	
1. Customers/clients	1.1 Interdepartmental offices	
	1.2 External establishments	
	1.3 Individual customers	
	1.4 Co-employees	
	1.5 Contractual workers	
	1.6 Trainees/apprentices	
	1.7 Department heads	

		1.8	Superiors
		1.9	Employer and internal employees
2.	National legislation	2.1	Occupational Health and Safety Requirements
		2.2	Industry/ sectoral code of ethics
		2.3	International and national guidelines for consumer protection
		2.4	International and national copyright laws
		2.5	Intellectual property rights law
		2.6	Legal and regulatory policies in the information technology
			sector
3.	Work processes	3.1	Encoding
		3.2	Printing
		3.3	Web designing
		3.4	Graphic designing
		3.5	Technical support
		3.6	Business system analysis
		3.7	Data base administration
4.	Standards	4.1	ISO standards
		4.2	IEC standards
		4.3	AS standards
		4.4	DIN standards
		4.5	Bangladesh standards

Curricular Content Guide

1.1	Corporate code of confidentiality of information
1.2	organizational policies, national legislation and workplace
	policies in relation to IT sector
1.3	Law and regulations pertaining to proprietary rights
1.4	International standards related to Information Technology
1.5	Quality processes for products and services
1.6	Procedure of provided to client information
1.7	Method of estimating for time, cost and delivery products and
	services
1.8	Workplace code of conduct in IT sector
2.1	Upholding confidentiality of information in accordance with
	organizational policies, national legislation and workplace
	policies
2.2	Asserting proprietary rights of client/customer
2.3	Completing work in accordance with industry and international
	standards
2.4	Implementing quality processes when developing products
	and services
2.5	Delivering correctly services and products developed by self
	and others
2.6	Providing unbiased and objective information are to clients.
2.7	Presenting realistic estimates for time, cost and delivery of
	outputs during negotiation
	1.2 1.3 1.4 1.5 1.6 1.7 1.8 2.1 2.2 2.3 2.4 2.5 2.6

	2.8 Following workplace code of conduct
3. Underpinning Attitudes	3.1 Eagerness to learn
	3.2 Tidiness and timeliness
	3.3 Concern to proper use computer and peripherals
	3.4 Orderliness
	3.5 Observing netiquette
4. Resource Implications	4.1 Workplace (simulated or actual)
	4.2 Personal Computer and peripherals
	4.3 Software
	4.4 Pens
	4.5 Papers
	4.6 Work sheets

Assessment Evidence Guide

1. Critical Aspects of	Assessment required evidence that the candidate:	
Competency	1.1 Upheld confidentiality of information in accordance with organizational policies, national legislation and workplace policies.	
	1.2 Asserted proprietary rights of client/customer.	
	1.3 Completed work to industry and international standards.	
	1.4 Implemented quality processes when developing products and services.	
	1.5 Delivered services and products developed by self and others.	
	1.6 Provided Unbiased and objective information to clients.	
	1.7 Presented realistic estimates for time, cost and delivery of	
	outputs during negotiation.	
	1.8 Followed workplace code of conduct.	
2. Methods of Assessment	Competency should be assessed by:	
	2.1 Written examination	
	2.2 Demonstration	
	2.3 Oral questioning	
	2.4 Workplace observation	
	2.5 Portfolio	
3. Context of Assessment	3.1 Competency assessment must be done in a training center or in	
	an actual or simulated work place after completion of the	
	training module.	

C. Occupation Specific (Core) Competencies

Unit of Competency:	Nominal Duration:	Unit Code:
APPLYBASIC C-sharp (C#)	26Hrs.	SEIP-IT-WDT-1-O

Unit descriptor:

This unit covers the knowledge, skills and attitudes required of a worker to declare, assign and show value of a variable in console, work with C# basic data type, control business logic using if-then-else, work with various loop and work with array, array list and list.

Elements and Performance Criteria Template:

(Terms in the performance criteria that are written in **bold and underlined** are described in the range of variables).

Elements of Competency		Performance Criteria
1. Declare, assign and show value of	1.1	Variables in computer memory are described.
a variable in console	1.2	Convention of C# code is named.
	1.3	A string type variable is declared and assigned.
	1.4	Value of a variable in console is shown.
	1.5	Running a Dot Net environment program in a computer
	1.0	is applied.
	1.6	A single statement type of variable is declared or assigned.
	1.7	One variable on each line is declared and assigned.
	1.8	Allocated memory of execution engine for local variable
		is explained.
	1.1	Local variable declaration and assignment syntax is
		declared and assigned.
2. Apply with C# basic data type	2.1	<u>C# data type</u> is introduced.
	2.2	Anatomy of a C# program and Visual studio IDE is
		applied.
3. Control business logic using if-	_	The "if. Else" statement is described.
then-else		Business logic using "if-then-else" is controlled.
		"If then else" logic in CRM is created.
4. Work with various loops	4.1	· · · · · · · · · · · · · · · ·
		The different types of loops are described.
		A constant to control the loops are used.
	4.4	The loop control statements are described.
	4.5	Various loops are used.
5. Work with array, array list and list	5.1	,
		The difference between array and array list is explained.
	5.3	,
	5.4	Data in an array is kept and later found.

Range of Variables

Variable	Range (Includes but not limited to):
1. C# data type	1.1 C# statements
	1.2 C# & VB.NET
	1.3 C# & JAVA
	1.4 C# Simple program
	1.5 C# console based program
	1.6 C# windows based program
	1.7 C# command line tools
	1.8 C# command line argument
	1.9 C# domain assembly details
	1.10 C# registry operation
	1.11 C# running process list
	1.12 C# file & excel operation
	1.13 C# XML
2. loops	2.1 For
	2.2 While
	2.3 Do-while

Curricular Content Guide

1.	Underpinning Knowledge	1.1	Variable in computer memory
		1.2	Convention of C# code naming procedure
		1.3	Method of showing value of a variable in console
		1.4	Type of declared or assigned variables in a single
			statement.
		1.5	Introduction of C# data type.
		1.6	Introduction to loops
		1.7	The different types of loop
		1.8	Techniques of introducing array and array list
		1.9	The difference between array and array list
2.	Underpinning Skills	2.1	Naming convention of C# code
		2.2	Declaring and assigning a string type variable.
		2.3	Understanding how a program is run in a computer Dot
			Net environment
		2.4	Explaining the execution of engine allocation memory
			for local variables
		2.5	Working with local variable declaration and assignment
			syntax.
		2.6	Understanding anatomy of a C# program and Visual
			studio IDE
		2.7	Describing the loop control statements
		2.8	Using of various loop
		2.9	Using of Array and list function
		2.10	Keeping data in an array and finding them later

3.	Underpinning Attitudes	3.1	Eagerness to learn
		3.2	Tidiness and timeliness
		3.3	Concern to proper use computer and peripherals
		3.4	Orderliness
		3.5	Observing netiquette
4.	Resource Implications	4.1	Workplace (simulated or actual)
		4.2	Personal Computer and peripherals
		4.3	Software (System & Application)
		4.4	Internet facility
		4.5	Pens
		4.6	Papers

Assessment Evidence Guide

1. Critical Aspects of Competency	Assessment required evidence that the candidate: #	
	 1.1 Showed value of a variable in console 1.2 Declared and assigned local variable declaration and assignment syntax 	
	1.3 Applied anatomy of a C# program and visual studio IDE 1.4 Created "If then else" logic in CRM	
	1.5 Used various loop	
	1.6 Used array and list function	
2. Methods of Assessment	Competency should be assessed by:	
	2.1 Written examination	
	2.2 Demonstration	
	2.3 Oral questioning	
	2.4 Workplace observation	
	2.5 Portfolio	
3. Context of Assessment	3.1 Competency assessment must be done in a training center or in an actual or simulated work place after completion of the training module.	

Unit of Competency:	Nominal Duration:	Unit Code:
WORK WITHOBJECT ORIENTED PROGRAMMING	32 Hrs.	SEIP-IT-WDT-2-O
(OOP) BASICS		

Unit Descriptor:

This unit covers the knowledge, skills and attitudes required of a worker to create user defined type and object, create association relationship between two classes, create inheritance relationship between classes and work with abstract class, method and interface.

Elements and Performance Criteria Template:

(Terms in the performance criteria that are written in **bold and underlined** are described in the range of variables).

Elements of Competency		Performance Criteria
1. Create user defined type and	1.1	User defined type is created.
create object	1.2	An object from problem domain is found.
	1.3	Field, property and method inside a class are kept.
2. Create association relationship	2.1	Association relationships defined.
between two classes	2.2	Association relationship between objects is defined.
	2.3	A class with the collection of another class is created.
3. Create inheritance relationship	3.1	The essence of inheritance relationship is understood.
between classes	3.2	Static class and method from real life example are
		defined.
4. Work with abstract class, method	4.1	Abstract class method and interface are introduced.
and interface	4.2	Abstract class and interface are differentiated.
	4.3	Interface as a type is used.
	4.4	Abstract class is declared.

Range of Variables

Variable	Range (Includes but not limited to :)
1. relationship	1.1 One-to-one
	1.2 One-to-many
	1.3 Many -to- one
	1.4 Many-to-many

Curricular Content Guide

1.	Underpinning Knowledge	1.1	Method of creating user defined type
		1.2	Procedure of keeping field, property and method inside
			a class
		1.3	Definition of association relationship
		1.4	The essence of inheritance relationship
		1.5	Definition of static class and method from real life
			example
		1.6	Difference between abstract class and interface

2.	Underpinning Skills	2.1	Founding an object from problem domain	
		2.2	Keeping some field, property, method inside a class	
		2.3	Define association relationship between objects	
		2.4	Create a class with the collection of another class	
		2.5	Introduction of abstract class method and interface	
		2.6	Using an Interface as a type	
		2.7	Declaration of abstract class	
3.	Underpinning Attitudes	3.1	Eagerness to learn	
		3.2	Tidiness and timeliness	
		3.3	Concern to proper use computer and peripherals	
		3.4	Orderliness	
		3.5	Observing netiquette	
4.	Resource Implications	4.1	Workplace (simulated or actual)	
		4.2	Personal Computer and peripherals	
		4.3	Different Operating Software, Local web server, FTP	
			clients	
		4.4	Internet	
		4.5	Pens	
		4.6	Papers	

Assessment Evidence Guide

1.	Critical Aspects of competency	Assessment required evidence that the candidate:	
		1.1 Kept field, property and method inside a class	
		1.2 Created A class with the collection of another class	
		1.3 Defined Static class and method from real life example	
		1.4 Introduced abstract class method and interface	
		1.5 Used interface as a type	
2.	Methods of Assessment	Competency should be assessed by:	
		2.1 Written examination	
		2.2 Demonstration	
		2.3 Oral questioning	
		2.4 Workplace observation	
		2.5 Portfolio	
3.	Context of Assessment	3.1 Competency assessment must be done in a training center	
		or in an actual or simulated work place after completion of	
		the training module.	

Unit of Competency:	Nominal Duration:	Unit Code:
USE CLIENT SIDE SCRIPTING LANGUAGES	34 Hrs.	SEIP-IT-WDT-3-O

Unit Descriptor:

This unit covers the knowledge, skills and attitudes required of a worker to use client side scripting languages. It specifically includes the tasks of understanding web works, using of Hypertext Mark-up Language (HTML), implementing Cascading Style Sheets (CSS) in a website and using JavaScript in a website.#

Elements and Performance Criteria Template:

(Terms in the performance criteria that are written in **bold and underlined** are described in the range of variables).

	Elements of Competency		Performance Criteria
5.	Define the working principle of	1.1	Different Eras of web are discussed.
	the web	1.2	Static websites and dynamic websites are compared.
		1.3	·
		1.4	Different types of websites are compared.
		1.5	Principle of the web operation is defined.
6.	Use HTML	2.1	Entities & attributes of HTML is explained.
	(Hypertext Mark-up Language)	2.2	HTML of a website is written.
		2.3	HTML concepts is implemented.
		2.1	HTML is implemented in software.
		2.2	HTML forms are identified.
		2.3	HTML form elements are used.
		2.4	HTML input types are used.
		2.5	HTML input attributes are used.
		2.6	HTML Graphics are used.
		2.7	HTML Media is used.
7.	Implement Cascading Style	3.1	CSS (Cascading Style Sheets) is described.
	Sheets (CSS) in a website	3.2	Role of CSS is explained.
		3.3	CSS is applied.
		3.4	The <u>basic concepts</u> of CSS is implemented.
		3.5	CSS box model and positioning is explained.
		3.6	CSS transition and gradients are explained.
		3.7	2D/3D transformation and animation is applied.
		3.8	The color and font using CSS is defined.
8.	Use JavaScript in a website	4.1	Client Side Scripting language is demonstrated.
		4.2	JavaScript core components are understood.
		4.3	The second secon
		4.4	JavaScript library is used.

Range of Variables

Variable		Range (Includes b	ut not li	mited to:)
Entities and attributes	1.1	HTML Introduction	1.13	HTML Images
	1.2	HTML Editors	1.14	HTML Tables
	1.3	HTML Attributes	1.15	HTML Lists
	1.4	HTML Headings	1.16	HTML Blocks
	1.5	HTML Paragraphs	1.17	HTML Classes
	1.6	HTML Styles	1.18	HTML Layout
	1.7	HTML Formatting	1.19	HTML Iframes
	1.8	HTML Quotations	1.20	HTML Head
	1.9	HTML Comments	1.21	HTML Entities
	1.10	HTML Colors	1.22	HTML Symbols
	1.11	HTML CSS	1.23	HTML URL Encode
	1.12	HTML Links		
2. HTML concepts	2.1	Elements	2.12	Layout
	2.2	HTML Editors	2.13	Forms
	2.3	Attributes	2.14	IFrames
	2.4	Headings	2.15	Colors
	2.5	Paragraphs	2.16	Entities
	2.6	Formatting	2.17	URL Encode
	2.7	Links	2.18	Form
	2.8	Head	2.19	Media
	2.9	Images Tables	2.20	Object
	2.10	Lists	2.21	Audio
	2.11	Block	2.22	Video
3. Software	3.1	Macromedia Dreamweav	/er	
	3.2	Microsoft FrontPage		
4. HTML Graphics	4.1	HTML Canvas		
	4.2	HTML SVG		
5. HTML Media	5.1	HTML Video		
	5.2	HTML Audio		
	5.3	HTML Plug-ins		
	5.4	HTML YouTube		
6. Basic concepts	6.1	CSS Introduction		
·	6.2	CSS Syntax		
	6.3	CSS Colors		
	6.4	CSS Color HEX		
	6.5	CSS Backgrounds		
	6.6	CSS Borders		
	6.7	CSS Margins		
	6.8	CSS Padding		
	6.9	CSS Height/ Width		

	6.10	CSS Text
	6.10	
		CSS Fonts
	6.12	CSS Links
	6.13	CSS Lists
	6.14	CSS Id & Class
	6.15	CSS Box model
	6.16	CSS Outline
	6.17	CSS Display
	6.18	CSS Max-width
	6.19	CSS Position
	6.20	CSS Float
	6.21	CSS Inline-block
	6.22	CSS Align
	6.23	CSS Navigation Bar
	6.24	CSS Dropdowns
	6.25	CSS Image gallery
	6.26	CSS Image opacity
	6.27	CSS Image sprites
	6.28	CSS Forms
	6.29	CSS Dimension
	6.30	CSS Tables
	6.31	CSS Counters
7. JavaScript core components	7.1	Variables
·	7.2	Functions
	7.3	Loops
	7.4	Conditions
	7.5	Switches
	7.6	Objects
	7.7	Arrays
	7.8	Output
	7.9	Comments
	7.10	Data Types
	7.11	Functions
	7.12	Operators
	7.12	Comparisons
	7.13	Breaks
	7.14	Errors
	7.13	Validation
8. JavaScript library	8.1	jQuery
o. Javascript library	8.2	MooTools
	8.3	
		Prototype
	8.4	Dojo and YUI
	8.5	wForms
	8.6	\$fx()
	8.7	JSTweener 16 days to
	8.8	JS charts
	8.9	C3DL
	8.10	ImageFX

8.11	Taffy DB
8.12	Datejs

Curricular Content Guide

1. Underpinning Knowledge	 1.1 The different Eras of Web 1.2 Comparison of static websites with dynamic websites 1.3 Elaboration and differentiation with web browsers 1.4 Principles of how web works 1.5 Identification of HTML forms 1.6 CSS (Cascading Style Sheets) 1.7 CSS box model and positioning 1.8 CSS transition and gradients
	1.9 Color and font using CSS 1.10 Client Side Scripting language
	1.11 JavaScript core components
2. Underpinning Skills	 2.1 Elaborating and differentiating web browsers 2.2 Comparing different types of websites 2.3 Explaining entities & attributes of HTML 2.4 Writing HTML of a website 2.5 Implementing HTML concepts 2.6 Implementing HTML in software 2.7 Using HTML form elements 2.8 Using HTML input types 2.9 Using HTML input attributes 2.10 Using HTML Graphics 2.11 Using HTML Media 2.12 Explaining role of CSS 2.13 Applying CSS 2.14 Implementing the basic concepts of CSS 2.15 Applying 2D/3D transformation and animation
3. Underpinning Attitudes	3.1 Eagerness to learn 3.2 Tidiness and timeliness 3.3 Concern to proper use computer and peripherals 3.4 Orderliness 3.5 Observing netiquette
4. Resource Implications	 4.1 Workplace (simulated or actual) 4.2 Personal Computer and peripherals 4.7 Different Operating Software, Local web server 4.3 Internet 4.4 Pens 4.5 Papers

Assessment Evidence Guide

	1	
Critical Aspect of Assessment	Assessment required Evidence that the candidate:	
	1.1 Defined the principle of the web operation	
	1.2 Compared the different types of websites	
	1.3 Implemented HTML on software	
	1.4 Used HTML graphics	
	1.5 Used HTML media	
	1.6 Implemented the basic concepts of CSS	
	1.7 Applied 2D/3D transformation and animation	
	1.8 Used java script library	
2. Methods of Assessment	Competency should be assessed by:	
	2.1 Written examination	
	2.2 Demonstration	
	2.3 Oral questioning	
	2.4 Workplace observation	
	2.5 Portfolio	
3. Context of Assessment	3.1 Competency assessment must be done in a training	
	center or in an actual or simulated work place after	
	completion of the training module.	

Unit of Competency:	Nominal Duration:	Unit Code:
WORK WITH DATABASE: MY SQL SERVER	32Hrs.	SEIP-IT-WDT-4-O

Unit Descriptor:

This unit covers the knowledge, skills and attitudes required of a worker to work with database: my SQL server. It specifically includes the tasks of discussing the basics of databases, differentiating different Database Management Systems (DBMS), Creating Database of a Website in a Database Management System and Create and use stored procedure.

Elements and Performance Criteria Template:

(Terms in the performance criteria that are written in **bold and underlined** are described in the range of variables).

Elements of Competency	Performance Criteria
1. Discuss the basics of	1.1 Basic database concepts are recognized.
Databases	1.2 The necessity of relational database for keeping user data is
	understood.
	1.3 The difference between free database and licensed
	database is identified.
	1.4 The role of database in web applications is spelled out.
2. Differentiate different	2.1 options and features of different database management
Database Management	systems is compared.
Systems (DBMS)	2.2 Different database management systems are
	installed.
	2.3 Entities and their attributes from a real life scenario are
	discovered.
	2.4 The relationship between entities and their attributes to
	draw an E-R diagram is defined.
3. Create Database of a Website	3.1 A database of a web project is designed.
in a Database Management	3.2 Indexing and cascading to the database is implemented.
System.	3.3 The data is Manipulated .
	3.4 The reports are generated.
	3.5 SQL queries to retrieve data are written.
4. Create and use stored	4.1 An introduction procedure in database is stored.
procedure	4.2 Describe Stored procedures functionality encapsulated.
	4.3 Users from data tables are isolated.
	4.4 A security mechanism is provided.
	4.5 A different database management system is migrated.
	4.6 Stored procedure is called, modified and deleted.

Range of Variables

Variable	Range (Includes but not limited to):
----------	--------------------------------------

1. basic database	1.1	Row
1. busic database	1.2	Column
	1.3	Table
	1.4	Relationships
	1.5	Quires
	1.6	Normalization
	1.7	Renormalization
	1.7	Database
	1.8	Relational Database
	_	
		Management System
		Primary Key
		Foreign Key
		Indexing
2 4:55 1 4-1-1		Entity Relationship Diagram
2. different database	2.1	Microsoft Access
management systems	2.2	Microsoft SQL Server
	2.3	Microsoft SQL
3. Design a Database	3.1	Tables creation
	3.2	Creation of Entity Relationship Diagram
	3.3	Normalization of the Entity Relationship Diagram
	3.4	De-normalization of the Entity Relationship Diagram
4. Manipulate	4.1	Create schema
	4.2	Create table
	4.3	Create report
	4.4	Insert data
	4.5	Select data
	4.6	Delete data
	4.7	Update data
	4.8	Filtering data
	4.9	Retrieve data

Curricular Content Guide

1 Undersigning Knowledge	1.1 Pasia database sensente
Underpinning Knowledge	1.1 Basic database concepts
	1.2 Difference between free database and licensed database
	1.3 Comparison of options and features of different database management systems
	1.4 Entities and their attributes from a real life scenario
	1.5 Introduction of stored procedure in database
	1.6 Method of describing stored procedures encapsulate
	functionality
	1.7 Isolation of users from data tables
	1.8 Migration to a different database management system
2. Underpinning Skills	2.1 Understanding the necessity of relational database for keeping user data
	2.2 Spelling out the role of database in web applications
	2.3 Installing different database management systems

		2.4 Defining the relationship between entities and their
		attributes to draw an E-R diagram
		2.5 Designing a database of a web project
		2.6 Implementing indexing and cascading to the database
		2.7 Manipulating the data.
		2.8 Generating the reports
		2.9 Writing SQL queries to retrieve data
		2.10 Providing a security mechanism
3. U	nderpinning Attitudes	3.1 Eagerness to learn
		3.2 Tidiness and timeliness
		3.3 Concern to proper use computer and peripherals
		3.4 Orderliness
		3.5 Observing netiquette
4. Re	esource Implications	4.1 Workplace (simulated or actual)
		4.2 Personal Computer and peripherals
		4.3 Different operating software and local web server
		4.4 Internet facility
		4.5 Pens
		4.6 Papers

Assessment Evidence Guide

1. Critical Aspect of Assessment	Assessment required Evidence that the candidate:	
	1.1 Discussed the basic database concepts.	
	1.2 Installed different database management systems.	
	1.3 Created Database of a Website in a Database	
	Management System.	
	1.4 Created and used stored procedure.	
	1.5 Generated the reports.	
	1.6 Provided a security mechanism to stored procedure.	
2. Methods of Assessment	Competency should be assessed by:	
	2.1 Written examination	
	2.2 Demonstration	
	2.3 Oral questioning	
	2.4 Workplace observation	
	2.5 Portfolio	
3. Context of Assessment	3.1 Competency assessment must be done in a training center	
	or in an actual or simulated work place after completion of	
	the training module.	

Unit of Competency:	Nominal Duration:	Unit Code:
PERFORM WEB PROGRAMMING BASICS USING	32 Hrs.	SEIP-IT-WDT-5-O
ASP.NET WEB FORM		

Unit Descriptor:

This unit covers the knowledge, skills and attitudes required of a worker to perform web-programming basics using asp.net web form. It specifically includes the tasks of Identifying the working principle of ASP.Net web formandto making UI layout for information entry and view.

Elements and Performance Criteria Template:

(Terms in the performance criteria that are written in **bold and underlined** are described in the range of variables).

Elements of Competency	Performance Criteria
1. Identify working principle of	1.1 Web design fundamentals is described.
ASP.Net web form	1.2 ASP.Net web form life cycle is described.
	1.3 Dot Net Framework is explained
	1.4 Software Development Life Cycle (SDLC) phases is
	implemented in a web project.
	1.5 Interface of a website in a web designing software is
	designed.
	1.6 Static or dynamic website in a web development software is
	developed.
	1.7 User management in ASP.Net application is described.
2. Make UI layout for	2.1 User control is explained.#
information entry and view.	2.2 Server Controls are applied.
	2.3 UI layout for entry information is developed
	2.4 Web application for keeping and searching information
	using more than two-layer architecture concept is
	developed
	2.5 <u>Different views</u> of a web page is identified.
	2.6 Data Controls are executed.

Range of Variables

Variable	Range (Includes but not limited to):
1. Server Controls	1.1 Button
	1.2 Textbox
	1.3 Hyperlink
	1.4 Radio Button
	1.5 Calendar
	1.6 Panel
	1.7 Label

2. different views	2.1 Design View
	2.2 Source View
	2.3 Code View
3. Data Controls	3.1 Data Server Controls
	3.1.1 Grid View
	3.1.2 Details View
	3.1.3 Form View
	3.1.4 SQL Data Source
	3.1.5 Access Data Source
	3.2 Data Validation Controls
	3.2.1 Required Field Validator
	3.2.2 Range Validator
	3.2.3 Validation Summary
	3.3 Data Navigation Controls
	3.3.1 Menu
	3.3.2 Tree View
	3.4 Data Login Controls
	3.4.1 Login
	3.4.2 Login View
	3.4.3 Password Recovery

Curricular Content Guide

1. Underpinning Knowledge	1.1 Web design fundamentals
	1.2 ASP.Net web form life cycle
	1.3 Dot Net Framework
	1.4 Software Development Life Cycle (SDLC) implementation
	in a web project.
	1.5 Web designing software
	1.6 Static or dynamic website in a web development software
	1.7 User management in ASP.Net application
	1.8 Server Controls
	1.9 UI layout for entry information
	1.10 Procedure of keeping and searching information using
	more than two-layer architecture concept
	1.11 Different views of a web page
	1.12 Procedure of executing data controls
2. Underpinning Skills	2.1 Explaining the Dot Net Framework #
	2.2 Implementing software development life cycle (SDLC) phases in a web project
	2.3 Designing interface of a website in a web designing software
	2.4 Developing a static or dynamic website in a web
	development software
	2.5 Understanding user control
	2.6 Applying the Server Controls

		2.7	Making UI layout for entry information.
		2.8	Identifying different views of a web page
		2.9	Executing the data controls
3.	Underpinning Attitudes	3.1	Eagerness to learn
		3.2	Tidiness and timeliness
		3.3	Concern to proper use computer and peripherals
		3.4	Orderliness
		3.5	Observing netiquette
4.	Resource Implications	4.1	Workplace (simulated or actual)
		4.2	Personal Computer and peripherals
		4.3	Different Operating Software, Local web server
		4.4	Internet
		4.5	Pens
		4.6	Papers

Assessment Evidence Guide

Assessment required Evidence that the candidate:		
1.1 Explained the Dot Net Framework.#		
1.2 Implemented software development life cycle (SDLC)		
phases in a web project.		
1.3 Developed a static or dynamic website in a web		
development software		
1.4 Applied Server Controls		
1.5 Made UI layout for entry information.		
1.6 Executed the Data Controls		
Competency should be assessed by:		
2.1 Written examination		
2.2 Demonstration		
2.3 Oral questioning		
2.4 Workplace observation		
2.5 Portfolio		
3.1 Competency assessment must be done in a training center		
or in an actual or simulated work place after completion of		
the training module.		

Unit of Competency:	Nominal Duration:	Unit Code:
APPLY WEB PROGRAMMING BASICS USING ASP.	44 Hrs.	SEIP-IT-WDT-6-O
NET MVC		

Unit Descriptor:

This unit covers the knowledge, skills and attitudes required of a worker to apply web programming basics using ASP. NET MVC. It specifically includes the tasks of applying the basic terminologies of MVC (model–view–controller), Utilizing ASP.Net MVC and working with Database Model and View.

Elements and Performance Criteria Template:

(Terms in the performance criteria that are written in **bold and underlined** are described in the range of variables).

Elements of Competency	Performance Criteria
1. Apply the basic terminologies	1.1 Vocabularies of ASP.Net MVC is identified.
of MVC (model-view-	1.2 Basic terminologies of MVC is described.
controller)	1.3 Controller and action is demonstrated.
	1.4 Razor Syntax is used.
	1.5 Razor helpers are used.
2. Utilized ASP.Net MVC	2.1 Database in ASP.Net MVC is used.
	2.2 JavaScript and JQuery in ASP.Net MVC is used.
	2.3 DB Context and DB Set in ASP.Net MVC is introduced.
	2.4 JavaScript and jQuery in ASP.Net MVC is introduced.
3. Work with Database Model	3.1 Database model is described.
and View	3.2 Database model binding is viewed.
	3.3 Model to model mapping and editing viewed.
	3.4 Multiple model is used.
	3.5 Application for user sign up, sign in, sign out is made.

Range of Variables

Variable	Range (Includes but not limited to):	
1. Razor helper	1.1 Web Grid	
	1.2 Web Graphics	
	1.3 Google Analytics	
	1.4 Facebook Integration	
	1.5 Twitter Integration	
	1.6 Sending Email	
	1.7 Validation	

Curricular Content Guide

	1	
1. Underpinning Knowledge	1.1	Vocabularies of ASP.Net MVC
	1.2	Basic terminologies of MVC
	1.3	Demonstration procedure of controller and action
	1.4	Method of using razor syntax
	1.5	Method of using razor helpers
	1.6	Introduction toDBcontext and DBset in ASP.Net MVC
	1.7	Introduction to Java script and JQueryin ASP.Net MVC
	1.8	Method of describing about the model
	1.9	Method of using of multiple model
2. Underpinning Skills	2.1	Identifying vocabularies of ASP.Net MVC
	2.2	Describing basic terminologies of MVC
	2.3	Demonstrating controller and action
	2.4	Using Razor Syntax
	2.5	Using Razor helpers
	2.6	Using Database in ASP.Net MVC
	2.7	Using JavaScript and JQuery in ASP.Net MVC
	2.8	Introducing DbContext and DbSet in ASP.Net MVC
	2.9	Introducing JavaScript and jQuery in ASP.Net MVC
	2.10	Mapping and editing view model to model
	2.11	Using of multiple model
	2.12	Making application for user sign up, sign in, sign out
3. Underpinning Attitudes	3.1	Eagerness to learn
	3.2	Tidiness and timeliness
	3.3	Concern to proper use computer and peripherals
	3.4	Orderliness
	3.5	Observing netiquette
4. Resource Implications	4.1	Workplace (simulated or actual)
	4.2	Personal Computer and peripherals
	4.3	Different Operating Software, Local web server
	4.4	Internet
	4.5	Pens
	4.6	Papers

Assessment Evidence Guide

1. Critical Aspect of Assessment	Assessment required Evidence that the candidate:
Tr enticuly appear of 7 to sessiment	1.1 Used Razor Syntax
	1.2 Used Razor helpers
	1.3 Used JavaScript and jQuery in ASP.Net MVC
	1.4 Used multiple model
	1.5 Used Database in ASP.Net MVC
	1.6 Made an application for user sign up, sign in, sign out
2. Methods of Assessment	Competency should be assessed by:
	2.1 Written examination
	2.2 Demonstration
	2.3 Oral questioning
	2.4 Workplace observation

	2.5 Portfolio		
3. Context of Assessment	3.2 Competency assessment must be done in a training center		
	or in an a	ctual or simulated work	place after completion of
	the traini	ng module.	
Unit of Competency:		Nominal Duration:	Unit Code:
IDENTIFY SOFTWARE PROJECT MANAGEMENT		50 Hrs.	SEIP-IT-WDT-7-O
AND PERFORM PROJECT WORK			

Unit Descriptor:

This unit covers the knowledge, skills and attitudes required of a worker to identify software project management & perform project work. It specifically includes the tasks of developing a dynamic website in ASP.Net,developing user story, creating project presentation and developing awareness about rights.

Elements and Performance Criteria Template:

(Terms in the performance criteria that are written in **bold and underlined** are described in the range of variables).

Elements of Competency		Performance Criteria	
1. Develop a dynamic website in	1.1 Key principles of agile project management is identified.#		
ASP.Net	1.2 Design interface of a website in a web designing		
		software is developed.#	
	1.3	Static or dynamic website in a web development	
		software is developed.#	
	1.4	Software development life cycle (SDLC) phases in a web	
		project is implemented.#	
2. Develop user story	2.1	User story is explained.	
	2.2	Story estimated.	
	2.3	User stories of a project work is defined.	
	2.4 <u>Trello</u> is explained.		
	2.5	2.5 Project in Trello is created.	
	2.6	A card is assigned to a group member.	
	2.7	Project stories are made.	
3. Create project presentation	3.1	Project <u>document</u> is created.	
	3.2	Final project presentation in a group and/or individual is	
		created.	
4. Develop awareness about rights	4.1	The policies, rules and regulations that govern the work	
		and workplace are upheld.	
	4.2	Illegal conduct or illegitimate action is reported to	
		appropriate management.	
	4.3	Propriety or confidential information is protected.	

Range of Variables

Variable	Range (Includes but not limited to):
1. Trello	1.1 Boards
	1.2 Lists
	1.3 Cards

2. Document	2.1 Analysis document
	2.2 Design document
	2.3 Implementation document
	2.4 Testing document
	2.5 Deployment document
	2.6 Maintenance and support document
	2.7 User manual

Curricular Content Guide

Underpinning Knowledge	1.1 Key principles of agile project management #
	1.2 The user story
	1.3 Define user stories definitions of project work
	1.4 Familiarizing with the Trello.
	1.5 Policies, rules/regulations that govern the work and workplace.
	1.6 Procedure of reporting illegal conduct or illegitimate
	action to appropriate management.
2. Underpinning Skills	2.1 Developing a static or dynamic website in a web development software
	2.2 Implementing software development life cycle (SDLC)
	phases in a web project#
	2.3 Estimating a story
	2.4 Creating project in Trello
	2.5 Assigning a card to a group member
	2.6 Working with project stories
	2.7 Creating a project document
	2.8 Making a final project presentation in a group and/or individual.
	2.9 Protecting propriety or confidential information.
3. Underpinning Attitudes	3.1 Eagerness to learn
	3.2 Tidiness and timeliness
	3.3 Concern to proper use computer and peripherals
	3.4 Orderliness
	3.5 Observing netiquette
4. Resource Implications	4.1 Workplace (simulated or actual)
	4.2 Personal Computer and peripherals
	4.3 Different Operating Software, Local web server
	4.4 Internet
	4.5 Pens
	4.6 Papers

Assessment Evidence Guide

1. Critical Aspects of Competency	Assessment required evidence that the candidate:
	1.1 Developed static or dynamic website in a web development
	software.#
	1.2 Implemented Software Development Life Cycle (SDLC)
	phases in a web project.
	1.3 Explained Trello.
	1.4 Made Project stories.
	1.5 Created a project document
	1.6 Made a final project presentation in a group and/or
	individual
	1.7 Illegal conduct or illegitimate action is reported to
	appropriate management.
2. Methods of Assessment	Competency should be assessed by:
	2.1 Written examination
	2.2 Demonstration
	2.3 Oral questioning
	2.4 Workplace observation
	2.5 Portfolio
3. Context of Assessment	3.1 Competency assessment must be done in a training center
	or in an actual or simulated work place after completion of
	the training module.

End of Competency Standard

Assessment Guide

A Framework for Effective Assessment

Supply Chain Management

How to Use this Assessment Guide

- This Assessment Guide presents need-to-know information for Assessors and others who want to know more about the assessment process. A handy Table of Contents Guide on the next page shows you where to look.
- If you want the basics of assessment, its key terms and definitions, in a Question & Answer (Q&A) format, see Section One.
- If you want a knowledge of who does what, the key roles and responsibilities involved in assessment, see Section Two.
- If you want a "toolbox" of tools and templates, that you can select from depending on your assessment need, see Section Three.
- If you want to look at working samples of completed assessment tools, see the Appendices.

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Assessment Guide

Section One: Objectives linked to Key Terms & Definitions

Define assessment.

Assessment is a systematic process of collecting proof or evidence on whether or not a candidate has demonstrated competence in the performance of a work-related activity/task that is directly linked to a performance standard. The assessment confirms that the individual can perform to the standard expected in the workplace and/or the nationally approved competency standard.

Give an example of assessment.

A helpful example in this regard is the driving test. The driver must prove his competence to drive by demonstrating to the driving assessor his ability to do so. The driving assessor uses a checklist to assess the candidate and make the necessary recommendations, based on the evidence he has collected in observing the candidate's driving. S/He either records/recommends that the candidate is *competent* or *not yet competent*.

What is the purpose of assessment?

The Purpose of Assessment is to confirm that a trainee can perform competently to the standards expected in the workplace.

What is Assessment based on?

- An effective Assessment is based on a Competency Standard.
- A Competency Standard describes the skills, knowledge, and attitudes needed to perform effectively in the workplace, not the classroom.

Define the term "competency."

Competency is the ability to do a task successfully. Aspects of competency include:

- The capacity to perform tasks to the required standard consistently
- The ability to respond to different needs in the workplace
- The ability to plan and integrate a variety of tasks to attain a work outcome

Describe what makes up a competency standard.

It must be noted that a competency standard is made up of individual units of competency that include elements of competency as well as the performance criteria needed to accomplish them.

Define the term "Assessment tool."

An assessment tool is, in effect, an evidence-gathering tool. It contains both the instrument used for the assessment and instructions for gathering evidence in the assessment process. As an assessment instrument it contains the context and conditions for the assessment; tasks to be administered to the learner; an outline of the evidence to be gathered for the learner; the criteria for judging the evidence; and the necessary housekeeping records for recording and reporting requirements.

Describe the difference between Conventional Testing & Competency Based Assessment.

Conventional Testing	CBT Assessment
 Emphasis on knowledge/memorization Teachers/Training Providers have main role Theory & practical Tests can become outdated High cost & central control Relatively inflexible 	 Based on competency standards Involve industry partners in crucial role Assessment based on demonstration of work skills rather than classroom knowledge Flexible delivery Competencies widely recognized

Guidelines & Templates used

Describe briefly what makes up an assessment system.

An Assessment System must be understood as a well-coordinated set of documented policies and procedures, including assessment materials and tools, that ensure assessments are consistently valid, reliable, flexible, fair, and safe.

Define the purpose of the Assessor role.

The role of Assessor is the heart and soul of effective competency based assessment. Without this pivotal role, determining the competency of the trainee is mere guesswork.

Note:

- The Industry Assessor will be asked to provide specs and practical demonstration tests from his workplace that will provide the evidence for determining competency.
- The importance of this input cannot be overemphasized for it best matches and tests the required performance criteria from the Standard.

Describe the basic questions that an Assessor must ask when planning an Assessment.

Planning an Assessment: What Needs to Happen?

- Determine which Units of Competency need to be assessed?
- Determine what Assessment Methods will be used?
- Determine what evidence-based tools (specs) need to be developed by the Assessor to guide the assessment?
- Determine how long it will take?
- Determine when the assessment will occur?
- Determine where the assessment will take place?
- Determine how it will be recorded?

Give some Assessor Requirements/Competencies.

Requirements/Competencies of an Assessor-

• The ability to use assessment tools to gather evidence effectively is essential, adjusting

the language where necessary to reflect the language/literacy/numeracy levels of the workplace and not to exceed them in order to ensure learner understanding. This will

also entail an ability to respond to learner needs such as responding to learner disability.

The skill to develop specifications and practical tests, based on performance criteria, that

provide evidence of competency that will fast track the assessment process.

• The ability to clearly demonstrate current industry skills and competencies relevant to

the Standard.

The Assessor is selected/appointed by Industry to act as an Assessor because of his

proven competencies.

Knows what needs to be done to assess the performance criteria

• Demonstrates a high level of expertise in the technical area to be examined

Can provide constructive feedback

Define the challenges of the Assessor Role.

Assessor Role: Challenges

Needs to be objective and unbiased

• Must have interpersonal skills to relax nervous candidates or deal with those who are

aggressive or emotional

Must have ability to deal with those who have literacy problems or difficult dialect

Review some basic need-to-know elements concerning assessment.

Assessment Basics: Need to Know Elements

Assessment to be conducted by Industry Assessor selected by industry

Industry assessor must be familiar with units of competency outlined in the course

standards

Industry Assessor should drafts specs that reflect industry requirements for trainees and

that are based on critical aspects of competency

- Industry assessor is responsible for making final judgment of competent or not yet competent
- Trainer will assist industry assessor
- Trainees must demonstrate competence based on the units of competency outlined in the standards
- All resources related to units of competency must be made available prior to the assessment event, e.g., tools, equipment, materials

Describe the trainer's role in the assessment process.

The Trainer acts as a primary resource for the Assessor and acts as a Facilitator.

Trainer ensures:

- All industry required tools, equipment, and materials are available for the assessment
- The training venue is booked and has sufficient space for demonstrations/tasks
- That all logistics such as admission slips, signature sheets, and records are readily available for distribution and collection
- That all teaching materials and Standard documents and Assessment tools are ready for the Assessor

Discuss the importance of principles of assessment and what is involved.

Principles of Assessment Table

Key Principles	Relevance/Meaning
Valid	Ensures assessment aligned with the Unit of Competency and is based on evidence that shows the learner can demonstrate skills and knowledge in other similar contexts (workplace)
Reliable	Evidence presented for assessment is consistently interpreted regardless of the Assessor
Flexible	Assesses competencies held by the learner regardless of where they have been acquired; reflects the individual learner's needs
Fair	The individual learner's needs or disability is considered in the assessment process; the learner is provided with information about the assessment process and given the opportunity to challenge the result of the assessment if warranted

Safe	The assessor has inspected the venue for assessment and
	determined that it is safe for all involved and that emergency evacuations are in place if needed

Define the term "evidence."

Evidence is information that is gathered and matched against a Unit of Competency to provide proof of competency.

State the different forms of evidence that can be collected.

Different forms of evidence that can be collected are-

- **Direct** such as demonstration test, or observation of Candidate
- **Indirect** such as Candidate's self-assessment or third party reports such as an employer interview

Describe and outline what is involved in "rules of evidence" and why they are important.

Rules of Evidence Table

Rules of Evidence	Meaning
Valid	The assessor is given assurance that the learner possesses the skills, knowledge, and attitudes described in the Unit of Competency and related assessment requirements
Sufficient	The assessor is assured that the quality, quantity, and relevance of the evidence is sufficient to enable a judgment to be made on the learner's competency
Authentic	The assessor is assured that the evidence provided for assessment is the learner's own work
Current	The assessor is assured that the assessment evidence demonstrates current competency of the learner. This evidence must be from the present or very recent past.

Describe the purpose of evidence gathering tools.

The Purpose of evidence gathering tools are-

- To help candidates understand what is expected of them
- To provide a focus for the assessment
- To identify what is needed to verify competency

State the use of the evidence guide.

The evidence guide provides useful advice on Unit of Competency assessment and must be read in conjunction with the performance criteria, required underpinning skills/knowledge/attitudes, range statement, and the critical aspects of competency for the Standard.

State why assessment evidence is important.

Evidence is the information gathered that provides proof that the performance criteria of a unit of competency has been met. Evidence can take many forms:

- **Observation:** watching the trainee perform
- Questioning: asking the trainee questions
- Demonstration of specific skills: seeing how the trainee performs a procedure or creates a final product
- Examining previous work the trainee has done

Describe the kinds of Assessment Methods that can be used for Evidence gathering purposes.

Various kinds of Assessment Methods can be used for Evidence gathering purposes. A wide range of assessment methods are available for Evidence- gathering purposes. Assessment methods are not limited to those listed below. The greater the range of assessment methods applied, the better the accuracy of the assessment.

Assessment Methods Table

Methods	Examples
Direct Observation of Candidate	Actual real-time activities in the workplace Work activities in a simulated workplace/training center
Questioning	Written questions; interviews; self-evaluation with questions; verbal questioning; questionnaires
Evidence compiled by Candidate	Portfolio; collection of work samples; products with supporting documentation; logbooks; information about life experience
Methods	Examples
Review of Product	Work samples and products; products as a result of a demonstration test/spec
Third Party Feedback	Reports/testimonials from Employers and Supervisors; evidence of training; interviews with Employers and Supervisors

Advice to the Assessor: use these methods and examples as a means of making your assessment valid, reliable, flexible, fair, and safe.

Define the term "evidence gathering tools" and give some examples of these tools.

Evidence gathering tools are the actual instruments that the Assessor uses to collect evidence. Evidence may be collected through:

- Demonstration of work activity
- Observation Checklist
- Question List
- Third party reports e.g. supervisor to verify consistent performance
- Review of candidate's portfolio

- Verifying the Candidate's capacity to deal with contingencies (unexpected things that come up)
- Written test

Define the term "portfolio."

A collection of evidence that may be presented by the Candidate to an Assessor to prove the Candidate's competence at a job or task.

What are some examples of Portfolio Evidence?

- Training results and certificates
- Training workbooks
- References from employers
- Job description and work experience
- Photos and videos
- Work journals
- Awards
- Work samples
- Letters and memos

Outline a 6-step method for preparing an evidence plan.

Steps in Preparing an Evidence Plan (Sequence of Steps to Follow)-

The Evidence Plan is the most important planning tool for an Assessor. A good evidence plan generates a list of the evidence that the Assessor must gather when conducting the assessment for a specific Unit of Competency. The following 6-Point Method for preparing an Evidence Plan provides a useful sequence of inter-related steps to follow:

- 1. Select Unit of Competency for assessment
- 2. Read full Unit of Competency
- 3. Identify evidence requirements based on:
 - a. Elements and Performance Criteria
 - b. Dimensions of Competence
 - c. Underpinning skills knowledge
 - d. Critical aspects of competency
- 4. Develop a list of evidence requirements
- 5. Identify best ways of collecting evidence (tools)
- 6. Document evidence plan

Outline the steps (sequence of activities) involved in developing an assessment tool.

Following are the steps (sequence of activities) involved in developing an assessment tool:

- 1. Select the Unit of Competency
- 2. Read the Unit of Competency
- 3. Identify the required evidence: critical aspects of competency
- 4. Identify the evidence gathering method
- 5. Complete the evidence plan
- 6. Select the appropriate template
- 7. Complete the template
- 8. Check the evidence gathering tools against the evidence plan and Unit of Competency
- 9. Check the tool with another Assessor for his opinion

Describe the four dimensions of competency.

Task Skills: the capacity to perform tasks in the workplace and demonstrate competence that meets the required Standard;

Task Management Skills: the ability to plan and integrate several tasks simultaneously that achieve a desired work outcome such as those skills involved in budgeting for a work operation, securing supplies and equipment for the work operation, completing the task in a timely, cost-effective manner, and ensuring safety practices are followed throughout;

Contingency Management Skills: the ability to respond to crises and breakdowns in the workplace, such as accidents and emergency situations that are unanticipated and require immediate action and resolution:

Job/Role Environment Skills: the capacity to own the responsibilities and expectations of the work environment that involves working with others effectively and participating in creating a work culture where all can contribute their best within the parameters of their job role

Assessment Guidelines

Section Two: Roles and Responsibilities

The Assessment System: Planning Guide for the Assessor

An Assessment System must be understood as a well-coordinated set of documented policies and procedures, including assessment materials and tools, that ensure assessments are consistently valid, reliable, flexible, fair, and safe.

Competency Assessment is a systematic process of collecting proof or evidence on whether or not a candidate has demonstrated competence in the performance of a work-related activity/task that is directly linked to a performance standard. The assessment confirms that the individual can perform to the standard expected in the workplace and/or the nationally approved competency standard.

Each **Unit of Competency** contained in a Standard describes a distinct part of a Mason's work and job profile. Within each Unit of Competency, the following components appear:

- Unit Title
- Unit Descriptor
- Elements of Competency
- Performance Criteria
- Range of Variables
- Evidence Guide

As a prelude to conducting assessments, the Assessor must be thoroughly familiar with all of the particulars and details of the Unit of Competency that is being assessed. This is a "must" for the role of the Assessor. He must be especially familiar with the Evidence Guide for gathering critical information.

The three sample assessment tools found below focus on the critical aspects of competency that can provide the required evidence to determine competency- the evidence guide. These sample assessment tools are as follows:

- Demonstration Checklist
- Observation Checklist
- Oral Questions Checklist

The duties of the Assessor include:

- Covering all of the key elements of the Unit of Competency under assessment
- Applying rigorously the Evidence Guide for the Unit of Competency as this contains the method and context of assessment, resources required for the assessment, the critical aspects of competency, and the required underpinning knowledge, skills, and attitudes
- Developing specifications (specs) for the task sheet for Demonstration as required
- Requiring the candidate to perform project tasks that cover interrelated units of competency- known as a "clustering."
- Making what can be termed "reasonable adjustments" for candidates with disabilities or for example, those candidates with regional dialects that prove difficult to understand

Note: These "reasonable adjustments" may involve reconfiguring a simulated workplace site so that a candidate's disability does not impede the assessment process, or for example, finding someone who can understand a regional dialect and assist the Assessor with essential communication skills.

Roles and Responsibilities of Assessor

Prior to any assessment, the Assessor should follow the specific instructions below to ensure a well-planned assessment event. In most cases s/he will be assisted by a Trainer. Nevertheless, s/he should make certain that good preparation has taken place for the assessment event.

- 1. Visit the assessment venue or workplace to ensure an adequate work area or platform containing:
 - Sufficient space for working- ensure square meters of work space enough for task to be carried out effectively and safely
 - Fire extinguisher and safety equipment within reach
 - Emergency procedures in place
 - All necessary tools, equipment, and materials ready at hand
 - All necessary machinery in good working order
- 2. Assessment is drawn and extracted from the relevant Unit of Competency based on an approved Standard and on an Evidence plan that clearly focuses on critical aspects of competency.
- 3. The duration of time to assess the demonstration is clearly indicated, for example, 3 hours. This information is shared with the Candidate along with other pertinent

information such as the sequence of tasks that he must follow, and the fact that he will be closely observed as the tasks are performed.

- 4. After the Candidate has performed the task, the Assessor will provide feedback to the Candidate on his performance.
- 5. The responsibility on finally deciding whether or not the Candidate was Competent or Not Yet Competent belongs to the accredited Assessor.
- 6. At the conclusion of the assessment, the Assessor will provide feedback on whether or not the Candidate was Competent or Not Yet Competent. S/He will also share information on next steps. These next steps include where to obtain the certificate related to the assessment or, if unsuccessful, how to re-try for competency within a specified period of time.

Roles and Responsibilities of Trainer

Prior to the assessment, you will have studied and become familiar with the Competency Standard for the industry occupation. You will also have met with or contacted the Assessor beforehand and discussed preparations and arrangements for the assessment. Your role will be to facilitate the assessment process and ensure all necessary resources are available, assisting the Assessor wherever possible. For example, once a draft spec has been produced by the Assessor, you will ensure it is fully consistent with the evidence plan and copied appropriately for use by both the Assessor and Candidate.

In addition to a confirming a suitable training venue and time, you will ensure that:

- Sufficient space is allotted for task work- square meters of work space enough for demonstration tasks to be carried out effectively and safely
- Fire extinguisher and safety equipment within reach if necessary
- Emergency procedures in place
- All necessary tools, equipment, and materials ready at hand
- All necessary machinery in good working order

Your duties include:

- notifying the Assessor and candidates of planned assessment events and their location
- advising and assisting the Assessor on planned assessment events
- collecting admission slips and signature sheets for assessment events
- ensuring all required forms and reporting mechanisms are in place and ready for distribution to the Assessor and to the Candidate
- ensuring all requisite forms are duly signed and forwarded to the SEIP Office, or certifying body

- responding to candidate queries and concerns such as re-assessment procedures
- reconfiguring workplace simulations so that candidates with disabilities are able to participate fully and without impediment
- working closely with the SEIP contact to ensure a successful assessment event

Roles and Responsibilities of Candidate

Prior to the assessment, you will have studied and become familiar with the Competency Standard for your industry.

1. Initially, you will be given information on the task you are to perform, and the estimated time you will require to perform it. These tasks are based on the critical aspects of competency related to the performance criteria within the approved Competency Standard.

Given the necessary instructions, and/or a task-related spec and the necessary tools, materials, and equipment, you will carry out and complete a work task. You will observe that there is:

- Sufficient space for working- square meters of work space enough for task to be carried out effectively and safely
- Fire extinguisher and safety equipment within reach if necessary
- Emergency procedures in place
- All necessary tools, equipment, and materials ready at hand
- All necessary machinery in good working order
- 2. Assessment is drawn and extracted from the relevant Unit of Competency based on the approved Competency Standard and on an Evidence plan (proof of competence) developed by the Assessor that clearly focuses on critical aspects of competency. The Evidence plan will be based on critical assessment tools such as demonstration/task; observation; oral questions.
- 3. The duration of time to assess the demonstration should be clearly indicated, for example, 3 hours. This information will be given to you along with other pertinent information such as the procedure or sequence of tasks that you must follow. It is important to note that you will be closely observed and assessed throughout the duration of your demonstration. You will be given time to ask questions and request clarification. You will also be given 10 minutes to familiarize yourself with the resources to be used in the assessment.
- 4. Based on your performance in demonstrating the task, you will be assessed by the Assessor to be Competent or Not Yet Competent. Regardless of the result you will be given feedback from the Assessor on your performance and the next steps.
- 5. After you have performed the task, the Assessor will provide feedback to you on your performance.

- 6. The responsibility on finally deciding whether or not you are Competent or Not Yet Competent belongs to the accredited Assessor.
- 7. At the conclusion of the assessment, the Assessor will provide feedback on whether or not you have been assessed to be **Competent** or **Not Yet Competent**. Both your signatures will be required on the Assessment Form. You will also be allowed to make comments on the Assessor's decision. The Assessor will then share information on next steps. These next steps include where to obtain the certificate related to the successful assessment or, if unsuccessful, how to re-try for competency within a specified period of time.

Section Three: Tools and Templates

This toolbox of Tools and Templates offers a wide range of assessment tools that will facilitate evidence gathering and other assessment-related needs. Evidence gathering, however, should not be limited to these tools and templates alone. The toolbox should be revised or expanded as necessary, to include other tools and templates that are deemed relevant.

- Demonstration Checklist
- Observation Checklist
- Oral Questions Checklist
- Evidence Plan (Overall Summary)
- Assessor Job Sheet and Specifications (Spec) Form
- Competency Assessment Results
- Assessor Planning Checklist Tool
- All About Questioning Techniques for Use in Assessment
- Quick Guide to Conducting Competency Assessments
- Assessor's Quick Start

Demonstration Checklist

Candidate's name:					
Assessor's name:					
Qualification:					
Project-Based Assessment Title					
Units of competency covered:					
Date of assessment:					
Time of assessment:					
Instructions for demonstration					
Please see attache	ed Instruction for [Demonstration (Candidate/A	ssessor))	
Supplies and Materials		Tools and equipment			
 Please refer to attached spe 	cific instruction	Please refer to attache	d specifi	c instru	ction
				ow if evi	
During the demonstration of sk	ills, did the candid	late:	Yes	No	N/A
•					
•					
•					
•					
•					
•					
•					
•					
•					
•					
•					
•					
•					
•					

Observation Checklist

Candidate's name:					
Assessor's name:					
Date of Assessment:					
Unit of Competency:					
Code:					
Name of Workplace/Training Center					
Procedure to Follow:	Observe Candidate's performing the task, and following the spec- if a spec is provided				
During the demonstration of skills, did the Candidate do the following (List steps that reflect critical aspects of competency from performance criteria of Unit of Competency):					
		YES	NO		
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
Candidate's performance was:	COMPETENT	NOT YET CO	OMPETENT		
	COMPETENT	NOT YET CO	OMPETENT		
performance was:	COMPETENT	NOT YET CO	Date:		

Oral Questions Checklist

Candidate's name:				
Assessor's name				
Date of Assessment:				
Assessment Venue:				
Unit of Competency:				
Reference Standard:				
The List of Questions below n		-		-
involve related specs for each			oinning skills fo	r Knowledge
may also be reviewed for comp	etent/non yet cor	npetent.		
L	ist of Questions	3	Satisfactor	y Response
Indicate Y or N in the box pro	ovided		YES	NO
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
Feedback to Candidate:				
Candidate's overall performand	ce was (circle):	Satisfactory	Not Satisfacto	ory
•	, ,	,		
The Candidate's underpinning	knowledge was	Satisfactory	Not Satisfacto	ory
(circle):				
Assessor Signature:			Date:	
, to cooo or orginataro.			Dato.	
Candidate Signature:			Date:	
2				

EVIDENCE PLAN: Overall Summary

QUALIFICATION:					
Project-Based Assessment Title					
Units of competency covered					
Ways in who	ich evidence will be collected: [tick the column] hat the candidate	Observation with Questioning	Demonstration with Questioning	Written Examination	Portfolio
•					
•					
•					
•					
•					
•					
•					
•					
•					
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Assessor Job Sheet and Specifications (Spec) Form

This Spec is in referer Representative/Assess		ndard, and has be	en developed by an Industry
The Result* indicates e	ither C for Competent, or	NYC for Not Yet C	Competent.
·		Critical Aspects Competency Covered	of Result*: C/NYC
task/spec successfully.	. • .	order, the critical a	eps involved in performing the aspects of competency listed to Competent.
2.			
3.			
4.			
5.			
Tools and Equipment required in completing		oletion: List all too	ols, equipment, and materials
Tools	Equipment	N	Materials
Assessor Name:		Date:	

Competency Assessment Results

Candidate's name:			
Assessor's name			
Qualification Title:			
Date of Assessment:			
Assessment Venue:			
Reference Standard:			
Unit of Competency:			
Officer Competency:			
Assessment Unit	Competent	Not	Yet Competent
7.63C33HIGHT OTHE	Competent	1400	Tet oompetent
Assessor's Recommendation a	nd Comments:		
Overall Assessment:			
Yes: The Candidate successfu	ully mot the required evid	onco/standar	de and domanetrated all of
the competencies necessary for			
above.		illioation and v	onite of competency nated
abovo.			
No: The Candidate did not mee	et the evidence requireme	ents. Re-asse	ssment is recommended.
	ı		
Assessor Signature:			Date:
			D (
Candidate Signature:			Date:
Assessment Center Manager S	Signature:		
1000000 Content Wanayer C	ngriature.		

ASSESSMENT PLANNING CHECKLIST TOOL

Assessor's name:	
Date:	

Directions: Circle the 'Yes' or 'No' response to each item.

1.	The Assessor is familiar with the unit(s) of competency being assessed	Yes	No
2.	The Assessor has verified that the workplace or training center has the correct equipment, machinery, tools, and materials necessary to complete all of the relevant aspects of the unit of competency	Yes	No
3.	The Assessor has ensured that all materials and equipment were assembled and arranged in advance.	Yes	No
4.	The Assessor has all the necessary tools, templates, and specifications needed to assess the trainee including a variety of assessment tools covering practical demonstration, observation, oral question, and (where necessary) written tests relevant to the competency specified in the standard	Yes	No
5.	The Assessor has met with the trainer prior to the assessment event to discuss his/her role.	Yes	No
6.	The Assessor will discuss the performance test with the trainee and address any concerns prior to giving the test	Yes	No
7.	The Assessor will discuss and record with the trainee the results of their performance	Yes	No

Action to be taken on "No" responses:

General Guidelines for Effective Questioning

- Keep questions short and focused on one key concept
- Ensure that questions are structured
- Test the questions to check that they are not ambiguous
- Use `open-ended questions such as `what if...?' and `why...?' questions, rather than closed questions
- Keep questions clear and straight forward and ask one at a time
- Use words that the candidate is able to understand
- Look at the candidate when asking questions
- Check to ensure that the candidate fully understands the questions
- Ask the candidate to clarify or re-phrase their answer if the assessor does not understand the initial response
- Confirm the candidate's response by repeating the answer back in his/her own words
- Encourage a conversational approach with the candidate when appropriate, to put him or her at ease
- Use questions or statements as prompts for keeping focused on the purpose of the questions and the kind of evidence being collected
- Use language at a suitable level for the candidate
- Listen carefully to the answers for opportunities to find unexpected evidence
- Follow up responses with further questions, if useful, to draw out more evidence or to make links between knowledge areas
- Compile a list of acceptable responses to ensure reliability of assessments

Recording responses

When using oral questioning, you may need a tool that has a structured approach (see below) and also enables you to record a candidate's responses. If the candidate's response is insufficient the assessor should record why on the recording sheet or checklist. This provides information that can be used later, if necessary, to explain to the candidate where he or she needs to develop their skills and/or knowledge to achieve the required competence.

Recording sheet for oral questioning (template)

Candidate's Name			
Assessor or Observer's Name			
Unit of Competency)			
Code			
Date of Assessment			
Location			
Task/Procedure			
Questions to be Answered by candidate	Response/Answ	er*	Satisfactory (Yes/No)
What would you do if			
What would you do if			
What would you do if			
How do you			
What are			
Why did you (Clarification)			
Follow up Questions			
The candidate's knowledge was:	Satisfactory Uns	atisf	actory
Feedback to candidate:			
Candidate signature:		Date	:
Assessor/Observer's Signature:		Date	:

ASSESSOR GUIDE TO CONDUCTING COMPETENCY ASSESSMENTS

1. BEFORE THE ASSESSMENT	2. DAY OF ASSESSMENT	3. DURING THE ASSESSMENT	4. POST ASSESSMENT
- Review unit(s) of competency to be assessed especially evidence to be collected against performance criteria - Ensure the workplace or training center complies with all safety requirements and that high risk areas are clearly marked - Identify/request essential assessment resources: • tools and equipment • supplies and materials • personal protective equipment • print resources and rating sheets • Have trainees contacted if they have to bring any resources for the assessment, e.g. logbook	-Verify attendance through signed attendance sheet - Provide overview of what is to happen throughout day Orient the trainees to: • purpose of assessment • qualification to be assessed • assessment procedures to be followed • address needs of trainees and provide information on evidence requirements and assessment process • make all announcements just before start of assessment	Give clear instructions to trainees on what they are required to do: • time limits and expectations • all equipment and tools must be of the same quality for all trainees • written and verbal instructions translated into local dialects as needed • encourage questions • avoid providing any assistance to trainees during assessment • stop process if accident imminent • keep focused on evidence being valid, reliable, fair, flexible, and safe • Record details of evidence collected	Provide feedback on outcome of assessment process re: • give clear feedback on assessment decision • provide information on overcoming any gaps in competency assessment • provide opportunity to discuss assessment process and outcome Prepare required assessment reports: • all rating sheets signed by trainee as well as Assessor • maintain records of assessment procedures, evidence collected, and assessment outcome • verify assessment results/outcomes with training center Prepare recommendations for issuance of national certificate

Assessor's Quick Start

- 1. Identify the Unit(s) of Competency from the Program Standard that you are going to assess.
- 2. Review the Critical Aspects of Competency from the Unit of Competency that will be the basis of your Evidence Guide.
- 3. Select the Assessment Tools that you will use to gather evidence.
 - i. Demonstration Checklist
 - ii. Observation Checklist
 - iii. Oral Questions Checklist
- 4. Create spec sheet(s) for the Unit of Competency to be examined.
- 5. Review the assessment procedure with the Candidate and ask if there are any questions.
- 6. Complete the assessment using the assessment tools in the order above. You are free to use other tools as well if you wish.
- 7. Determine whether Candidate is **Competent** or **Not-Yet-Competent**
- 8. Complete all necessary record sheets.
- 9. Give feedback to the Candidate.

Demonstration Checklist: Apply Basic C-Sharp

		<i>j = 0.0.0 0 0.1.0.1</i>			
Candidate's name:					
Assessor's name:					
Qualification:	Web Development Dot No	et			
Project-Based Assessment Title					
Units of competency covered:	Apply Basic C-Sharp				
Date of assessment:					
Time of assessment:					
Instructions for demonst	tration				
Please see	attached Instruction for I	Demonstration (Candidate/A	.ssessor)		
Supplies and MaterialsPlease refer to attach	ed specific instruction	Tools and equipment Please refer to attache	d specific	c instruc	ction
				ow if evi monstra	
During the demonstration	on of skills, did the candid	late:	Yes	No	N/A
1. Show value of a vari	able in console				
and assignment syn	tax	local variable declaration			
3. Apply structure of a	C# Program and visual s	tudio IDE			
4. Create "if then else"	logic in CRM				
5. Use various loops					
6. Use array and list fu	nction				

Observation Checklist: Apply Basic C-Sharp

Candidate's name:				
Assessor's name:				
Date of Assessment:				
Unit of Competency:	Apply Basic C-Sharp			
Code:	SEIP-IT-WDT-1-0			
Name of Workplace/Training Center				
Procedure to Follow:	Observe Candidate's p spec- if a spec is provide	•	and following the	
During the demonstration of skills, did the Candidate do the following (List steps that reflect critical aspects of competency from performance criteria of Unit of Competency):				
		YES	NO	
1. Show value of a variable	e in console			
2. Show functionality in de				
	n and assignment syntax			
3. Apply structure of a C# studio IDE	Program and visual			
4. Create "if then else" log	ic in CRM			
5. Use various loops				
6. Use array and list functi	on			
Candidate's performance was:	COMPETENT	NOT YET C	OMPETENT	
Feedback to Candidate:				
Candidate's Signature:	I		Date:	
Assessor's Signature:			Date:	

Oral Questions Checklist: Apply Basic C-Sharp

	-		
Candidate's name:			
Assessor's name:			
Date of Assessment:			
Assessment Venue:			
Unit of Competency:	Apply Basic C-Sharp		
Reference Standard:	Web Development Dot Net		
	ust be pegged to the competency		
	each Unit of Competency tested. L		
Knowledge may also be review	ved for Competent/Not Yet Compe	tent designati	on.
Lis	st of Questions	Satisfactor	Y
		Response	-
Indicate Y or N in the box pr	ovided	YES	NO
1. Can you describe what is mear	nt by "if-then-else" business logic		
2. Can you describe three differe	nt types of loops?		
3. Can you give an example of ob	serving netiquette?		
4. Can you explain the difference	between array and array list?		
5. Can you explain how a prograr	n is run in a computer Dot Net		
environment?			
6. What is meant by a "string typ	e variable?"		
Feedback to Candidate:			
The Candidate's overall perfor	mance was (circle): Satisfact	ory/ Not Satis	sfactory
The Candidate's underpinning	knowledge was (circle): Satisfact	ory/ Not Satis	sfactory
Assessor Signature:		Date:	
Candidate Signature:		Date:	

Demonstration Checklist: Work with Object Oriented Programming (OOP) Basics

Candidate's name:					
Assessor's name:					
Qualification:	Web Development Dot Net				
Project-Based Assessment Title					
Units of competency covered:	Work with Object Oriented Programming (OOP) Basics				
Date of assessment:					
Time of assessment:					
Instructions for demonst	tration				
Please see	attached Instruction for I	Demonstration (Candidate/A	ssessor)		
Supplies and MaterialsPlease refer to attach	ed specific instruction	 Tools and equipment Please refer to attached 	d specifio	c instru	ction
			✓ to she is de	ow if evi monstra	
During the demonstration	on of skills, did the candid	late:	Yes	No	N/A
 Keep field, prope 	erty, and method inside a	class			
Create A class w	vith collection of another	class			
Define static class	ss and method from real	life example			
Show facility with	n abstract class method a	and interface			
5. Use interface as	a type		П		
	a type		Ц	_	
	а туре				
	а туре				
	а туре				
	а туре				

Observation Checklist: Work with Object Oriented Programming (OOP) Basics

Candidate's name:			
Assessor's name:			
Date of Assessment:			
Unit of Competency:	Work with Object Oriente	ed Programming (OOP) Basics
Code:	SEIP-IT-WDT-2-0		
Name of Workplace/Training Center			
Procedure to Follow:	Observe Candidate's p spec- if a spec is provide		and following the
During the demonstration reflect critical aspects of			
		YES	NO
1. Keep field, property, and method inside a class			
2. Create A class with collection of another class			
Define static class and in example			
Show facility with abstration interface	act class method and		
5. Use interface as a type			
Candidate's performance was:	COMPETENT	NOT YET C	OMPETENT
Feedback to Candidate:			
Candidate's Signature:	<u>I</u>		Date:
Assessor's Signature:			Date:

Oral Questions Checklist: Work with Object Oriented Programming (OOP) Basics

Candidate's name:			
Assessor's name:			
Date of Assessment:			
Assessment Venue:			
Unit of Competency:	Work with Object Oriented Program	ming (OOP) B	asics
Reference Standard:	Web Development Dot Net		
may involve related specs for e	ust be pegged to the competency each Unit of Competency tested. Used for Competent/Not Yet Competent	nderpinning	skills for
Li	st of Questions	Satisfactor Response	у
Indicate Y or N in the box pr	ovided	YES	NO
1. Can you define what is meant			
2. What is meant by the term "essence of inheritance relationship?"			
3. What is the procedure for keep			
inside a class?			
4. What are some environmental computers?	concerns associated with		
5. What is involved in using inter	face as a type?		
	veen abstract class and interface?		
o. How do you differentiate betw	reen abstract class and interrace:		
Feedback to Candidate:			
The Candidate's overall perfor	mance was (circle): Satisfacto	ory/ Not Satis	factory
The Candidate's underpinning	knowledge was (circle): Satisfacto	ory/ Not Satis	factory
Assessor Signature:		Date:	
Candidate Signature:		Date:	

Demonstration Checklist: Use Client Side Scripting Languages

Candidate's name:					
Assessor's name:					
Qualification:	Web Development Dot No	Web Development Dot Net			
Project-Based Assessment Title					
Units of competency covered:	Use Client Side Scriptin	g Languages			
Date of assessment:					
Time of assessment:					
Instructions for demonst	tration				
Please see	attached Instruction for I	Demonstration (Candidate/A	ssessor)		
Supplies and Materials Please refer to attach	ed specific instruction	 Tools and equipment Please refer to attached 	·		
			✓ to sho		
			is de	monstra	icu
During the demonstration	on of skills, did the candid	late:	Yes	No No	N/A
During the demonstration 1. Define the principle of		late:			
	of the web operation	late:	Yes	No	N/A
Define the principle of the princip	of the web operation nt types of websites	late:	Yes	No	N/A
 Define the principle Compare the different 	of the web operation nt types of websites a software	late:	Yes	No	N/A
 Define the principle Compare the difference Implement HTML on 	of the web operation nt types of websites a software effectively	late:	Yes	No □	N/A
 Define the principle of Compare the difference Implement HTML on Use HTML graphics 	of the web operation nt types of websites a software effectively fectively	late:	Yes	No □ □ □ □ □ □	N/A
 Define the principle of Compare the difference Implement HTML on Use HTML graphics Use HTML media ef 	of the web operation nt types of websites a software effectively fectively concepts of CSS	late:	Yes	No □ □ □ □ □ □ □ □ □	N/A
 Define the principle of Compare the difference Implement HTML on Use HTML graphics Use HTML media ef Implement the basic 	of the web operation Int types of websites I software I effectively I fectively I concepts of CSS I rmation and animation	late:	Yes	No	N/A
 Define the principle of the compare the difference of the compare the principle of the compare the co	of the web operation Int types of websites I software I effectively I fectively I concepts of CSS I rmation and animation	late:	Yes	No	N/A

Observation Checklist: Use Client Side Scripting Languages

Candidate's name:			
Assessor's name:			
Date of Assessment:			
Unit of Competency:	Use Client Side Scripting	Languages	
Code:	SEIP-IT-WDT-3-0		
Name of Workplace/Training Center			
Procedure to Follow:	Observe Candidate's p spec- if a spec is provide		and following the
During the demonstration reflect critical aspects of	•	9	•
		YES	NO
1. Define the principle of the	ne web operation		
2. Compare the different types of websites			
3. Implement HTML on so	ftware		
4. Use HTML graphics effe	ectively		
5. Use HTML media effect	ively		
6. Implement the basic cor	ncepts of CSS		
7. Apply 2D/3D transforma	ation and animation		
8. Use java script library e	ffectively		
Candidate's performance was:	COMPETENT	NOT YET C	OMPETENT
Feedback to Candidate:			
Candidate's Signature:	ı		Date:
Assessor's Signature:			Date:

Oral Questions Checklist: Use Client Side Scripting Languages

5 5			
Candidate's name:			
Assessor's name:			
Date of Assessment:			
Assessment Venue:			
Unit of Competency:	Use Client Side Scripting Language	S	
Reference Standard:	Web Development Dot Net		
may involve related specs for e	ust be pegged to the competency (each Unit of Competency tested. U red for Competent/Not Yet Compet	nderpinning	skills for
Lis	st of Questions	Satisfactor Response	У
Indicate Y or N in the box pr	ovided	YES	NO
	tween static websites and dynamic		-
websites?	,		
2. Can you explain the role of CSS	G (Cascading Style Sheets)?		
3. What are some examples of H	ΓML media?		
4. Can you give two examples of	HTML graphics?		
5. Can you identify at least five H	TML concepts?		
6. Can you identify at least five collibrary?	omponents of the JavaScript		
Feedback to Candidate:			
The Candidate's overall perform	mance was (circle): Satisfacto	ory/ Not Satis	factory
The Candidate's underpinning	knowledge was (circle): Satisfacto	ory/ Not Satis	factory
Assessor Signature:		Date:	
Candidate Signature:		Date:	

Demonstration Checklist: Work With Database MY SQL Server

Candidate's name:					
Assessor's name:					
Qualification:	Web Development Dot Net				
Project-Based Assessment Title					
Units of competency covered:	Work With Database M	Work With Database MY SQL Server			
Date of assessment:					
Time of assessment:					
Instructions for demonst	tration				
Please see	attached Instruction for D	Demonstration (Candidate/A	ssessor)		
Supplies and Materials		Tools and equipment			
 Please refer to attach 	• Please refer to attached specific instruction			ction	
				ow if evi monstra	
During the demonstration	on of skills, did the candid	ate:	Yes	No	N/A
1. Show facility in the b	pasic database concepts				
2. Install different datab	oase management syster	ns			
3. Create Database of	a website in a Database	Management System			
4. Create and use store	ed procedure				
5. Generate reports					
6. Provide a security m	echanism to stored proce	edure			

Observation Checklist: Work With Database MY SQL Server

Assessor's Signature: Date		Date:	
Candidate's Signature:	1		Date:
Feedback to Candidate:			
Candidate's performance was:	COMPETENT	NOT YET C	OMPETENT
	T		
procedure			
6. Provide a security mech	nanism to stored		
5. Generate reports			
Management System 4. Create and use stored p	procedure		
Create Database of a w Management System	rebsite in a Database		
•	e management systems		
Show facility in the basi	c database concepts	120	110
During the demonstration reflect critical aspects of			
Procedure to Follow: Observe Candidate's performing the task, and following the spec- if a spec is provided			
Name of Workplace/Training Center			
Code:	SEIP-IT-WDT-4-0		
Unit of Competency:	Work With Database MY	SQL Server	
Date of Assessment:			
Assessor's name:			
Candidate's name:			

Oral Questions Checklist: Work With Database MY SQL Server

Candidate's name:			
A			
Assessor's name:			
Date of Assessment:			
Assessment Venue:			
Unit of Competency:	Work With Database MY SQL Serve	er	
Reference Standard:	Web Development Dot Net		
	ust be pegged to the competency		
-	each Unit of Competency tested. U	•	
Knowledge may also be review	red for Competent/Not Yet Compet	ent designation	on.
Lis	st of Questions	Satisfactor	v
		Response	
Indicate V or N in the hey pr	avidad	VEC	NO
Indicate Y or N in the box pr		YES	NO
,	e between a free database and a		
licensed database?			
2. What is the role of the databas	• • • • • • • • • • • • • • • • • • • •		
3. Can you define the relationship			
attributes to draw an E-R diagran	n?		
4. What is the function of "quires	s" in a basic database?		
5. Can you identify three differer	it database management systems?		
6. Can you give some examples o	f how to manipulate data?		
- II I A II I			
Feedback to Candidate:			
The Candidate's overall perfor	mance was (circle): Satisfacto	ory/ Not Satis	factory
The Candidate's underpinning	knowledge was (circle): Satisfacto	ory/ Not Satis	factory
Assessor Signature:		Date:	
Candidate Signature:		Date:	

Demonstration Checklist: Perform WEB Programming Basics Using ASP.NET Web Form

<u> </u>	<u> </u>	• • • • • • • • • • • • • • • • • • • •			
Candidate's name:					
Assessor's name:					
Qualification:	Web Development Dot No	et			
Project-Based Assessment Title					
Units of competency covered:	Perform WEB Programming Basics Using ASP.NET Web Form				
Date of assessment:					
Time of assessment:					
Instructions for demonst	tration				
Please see	attached Instruction for I	Demonstration (Candidate/A	ssessor)		
Supplies and Materials Please refer to attach	ed specific instruction	Tools and equipment Please refer to attached	d specific	c instruc	ction
		,		ow if evid	
During the demonstration	on of skills, did the candid	late:	Yes	No	N/A
1. Describe the DOT N	let Framework				
Implement software development life cycle (SDLC) phases in a web project					
3. Develop a static or o	dynamic website in a web	development software			
4. Apply server control	s				
5. Make UI layout for e	ntry information				
6. Execute the Data Co	ontrols				

Observation Checklist: Perform WEB Programming Basics Using ASP.NET Web Form

Candidate's name:			
Assessor's name:			
Date of Assessment:			
Unit of Competency:	Perform WEB Programm	ing Basics Using ASP	.NET Web Form
Code:	SEIP-IT-WDT-5-0		
Name of Workplace/Training Center			
Procedure to Follow:	Observe Candidate's performing the task, and following the spec- if a spec is provided		
During the demonstration of skills, did the Candidate do the following (List steps that reflect critical aspects of competency from performance criteria of Unit of Competency):			
		YES	NO
Describe the DOT Net Framework			
Implement software development life cycle (SDLC) phases in a web project			
Develop a static or dyna development software			
Apply server controls			
5. Make UI layout for entry	information		
6. Execute the Data Contro			
Candidate's performance was:	COMPETENT	NOT YET C	OMPETENT
Feedback to Candidate:			
Candidate's Signature:	1		Date:
Assessor's Signature:			Date:

Oral Questions Checklist: Perform WEB Programming Basics Using ASP.NET Web Form

Candidate's name:				
Assessor's name:				
Date of Assessment:				
Assessment Venue:				
Unit of Competency:	Perform WEB Programming Basics Form	Using ASP.N	ET Web	
Reference Standard:	Web Development Dot Net			
may involve related specs for	ust be pegged to the competency each Unit of Competency tested. Uved for Competent/Not Yet Competent/	nderpinning	skills for	
Li	st of Questions	Satisfactor Response	ry	
Indicate Y or N in the box pr	ovided	YES	NO	
1. Can you describe the Dot Net framework?				
2. Can you identify three differer	nree different views available?			
3. What are five examples of dat	of data server controls?			
4. What are three examples of da	of data validation controls?			
5. What are two examples of dat	5. What are two examples of data navigation controls?			
6. What are three functions of data login controls?				
Feedback to Candidate:				
The Candidate's assembly wenter	mana was (simple). Osti-54-	mal Net Oction	-footow-	
The Candidate's overall perfor	mance was (circle): Satisfacto	ory/ Not Satis	stactory	
The Candidate's underpinning	knowledge was (circle): Satisfacto	ory/ Not Satis	sfactory	
Assessor Signature:		Date:		
Candidate Signature:		Date:		

Demonstration Checklist: Apply Web Programming Basics Using ASP.NET MVC

<u> </u>	· · · · · · ·				
Candidate's name:					
Assessor's name:					
Qualification:	Web Development Dot Net				
Project-Based Assessment Title					
Units of competency covered:	Apply Web Programming Basics Using ASP.NET MVC				
Date of assessment:					
Time of assessment:					
Instructions for demons	tration				
Please see	attached Instruction for [Demonstration (Candidate/A	ssessor		
Supplies and Materials Please refer to attached specific instruction Tools and equipment Please refer to attached specific instruction				ction	
	✓ to show if evidence is demonstrated				
During the demonstration	on of skills, did the candid	late:	Yes	No	N/A
Use Razor Syntax					
2. Use Razor helpers					
3. Use Java Script and	I jQuery in ASP.Net MVC				
4. Use multiple model					
5. Use Database in AS	SP.NET MVC				
6. Make an application	ı for user sign up, sign ou	t			

Observation Checklist: Apply Web Programming Basics Using ASP.NET MVC

Candidate's name:			
Assessor's name:			
Date of Assessment:			
Unit of Competency:	Apply Web Programming	Basics Using ASP.NI	ET MVC
Code:	SEIP-IT-WDT-6-0		
Name of Workplace/Training Center			
Procedure to Follow:	Observe Candidate's performing the task, and following the spec- if a spec is provided		
During the demonstration reflect critical aspects of o	•	9	•
		YES	NO
Use Razor Syntax			
Use Razor helpers			
Use Java Script and jQuery in ASP.Net MVC			
4. Use multiple model			
5. Use Database in ASP.N	IET MVC		
6. Make an application for	user sign up, sign out		
Candidate's performance was:	COMPETENT	NOT YET COMPETENT	
Feedback to Candidate:			
Candidate's Signature:	1		Date:
Assessor's Signature:			Date:

Oral Questions Checklist: Apply Web Programming Basics Using ASP.NET MVC

Candidate's name:				
Assessor's name:				
Date of Assessment:				
Assessment Venue:				
Unit of Competency:	Apply Web Programming Basics Us	ing ASP.NET	MVC	
Reference Standard:	Web Development Dot Net			
	ust be pegged to the competency			
	each Unit of Competency tested. U			
Knowledge may also be review	red for Competent/Not Yet Compet	ent designati	on.	
List of Questions Satisfactory Response			У	
Indicate Y or N in the box pr	ovided	YES	NO	
1. Can you describe the procedur	e for using Razor Syntax?			
2. What is involved in using multiple models?				
3. What is involved in making an application for user sign up, sign in,				
and sign out?				
4. What is involved in using Razor helpers?				
5. How important is tidiness and timeliness in your work?				
6. What are some environmental	concerns that exist because of			
your work?				
Feedback to Candidate:				
The Candidate's overall perform	mance was (circle): Satisfacto	ory/ Not Satis	factory	
The Candidate's underpinning	knowledge was (circle): Satisfacto	ry/ Not Satis	factory	
Assessor Signature:		Date:		
Candidate Signature:		Date:		

Demonstration Checklist: Identify Software Project Management & Perform Project Work

Candidate's name:					
Assessor's name:					
Qualification:	Web Development Dot No	et			
Project-Based Assessment Title					
Units of competency covered:	Identify Software Projec	t Management & Perform P	roject W	ork	
Date of assessment:					
Time of assessment:					
Instructions for demonst	tration				
Please see	attached Instruction for [Demonstration (Candidate/A	.ssessor)		
Supplies and Materials		Tools and equipment	.ı: <i>c</i> :	- : 4	-4:
 Please refer to attach 	lea specific instruction	Please refer to attache	a specific	c instru	ction
				ow if evi monstra	
During the demonstration	on of skills, did the candid	late:	Yes	No	N/A
Develop static or dyi	namic website in web dev	velopment software			
Implement Software project	Development Life Cycle	(SDLC) phases in a web			
Describe Trello					
4. Make Project stories	3				
5. Create a project doo	cument				
6. Make a final individual/group project presentation					
7. Report illegal conduct or illegitimate action to appropriate management					

Observation Checklist: Identify Software Project Management & Perform Project Work

Candidate's name:				
Assessor's name:				
Date of Assessment:				
Unit of Competency:	Identify Software Project	Management & Perfo	rm Project Work	
Code:	SEIP-IT-WDT-7-0			
Name of Workplace/Training Center				
Procedure to Follow:	Observe Candidate's performing the task, and following the spec- if a spec is provided			
During the demonstration of skills, did the Candidate do the following (List steps that reflect critical aspects of competency from performance criteria of Unit of Competency):				
		YES	NO	
Develop static or dynam development software				
(SDLC) phases in a wel	e Development Life Cycle a web project			
Describe Trello				
4. Make Project stories	3			
5. Create a project docume	roject document			
6. Make a final individual/group project presentation				
7. Report illegal conduct or illegitimate action to appropriate management				
Candidate's performance was:	COMPETENT	NOT YET COMPETENT		
Feedback to Candidate:				
Candidate's Signature:	•		Date:	
Assessor's Signature:			Date:	

Oral Questions Checklist: Identify Software Project Management & Perform Project Work

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Candidate's name:				
Assessor's name:				
Date of Assessment:				
Assessment Venue:				
Unit of Competency:	Identify Software Project Manageme	ent & Perform	Project Work	
Reference Standard:	Web Development Dot Net			
may involve related specs for e	ust be pegged to the competency each Unit of Competency tested. Uved for Competent/Not Yet Compet	nderpinning	skills for	
Lis	st of Questions	Satisfactor Response	У	
Indicate Y or N in the box pr	ovided	YES	NO	
1. What is the procedure followe	d in developing a user story?			
2. Why is it important to observe the policies, rules, and regulations				
that govern the workplace?				
3. What is the method used for c	What is the method used for creating a project in Trello?			
4. Can you identify at least five common types of document?				
5. To what extent is confidentiality an issue in the workplace?				
6. What is involved in creating a project document?				
Feedback to Candidate:				
The Candidate's overall perform	mance was (circle): Satisfacto	ory/ Not Satis	factory	
The Candidate's underpinning	knowledge was (circle): Satisfacto	ory/ Not Satis	factory	
Assessor Signature:		Date:		
Candidate Signature:		Date:		