



COMPETENCY STANDARDS & ASSESSMENT GUIDE FOR WEB DEVELOPMENT - PHP

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

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The Competency Standards for Web Development - PHP 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.

Occupation Specific (Core) Competencies (240 hrs.)

Code	Unit of Competency	Elements of Competency	Guided Learning Hours
SEIP-IT-WDP-1-O	Explain the Web	1. Identify client server architecture 2. Explain the operation of the web 3. Use web design tools 4. Explain role of web server 5. Explain role of database server	10
SEIP-IT-WDP-2-O	Setup Development Environment	1. Install web server 2. Work using tools of web server 3. Install FTP clients	10
SEIP-IT-WDP-3-O	Explain PHP Basics	1. Explain basic PHP language 2. Work with PHP 3. Create an application	30
SEIP-IT-WDP-4-O	Explain Web Concept	1. Work with basic HTML 2. Work with web Form 3. Explain GET & POST method	8
SEIP-IT-WDP-5-O	Explain Clean Code	1. Explain clean Code 2. Learn coding style guide 3. Learn & apply on how to handle error	12
SEIP-IT-WDP-6-O	Create Software Development Life Cycle (SDLC)	1. Prepare a sequence diagram from user stories 2. Prepare a schema diagram 3. Prepare mock up 4. Prepare user interface from the mockup using HTML / CSS	20
SEIP-IT-WDP-7-O	Explain Object Oriented Programming (OOP)	1. Identify class properties, constants and visibility 2. Explain encapsulation 3. Explain inheritance	25

SEIP-IT-WDP-8-O	Perform Web Development with PHP Using OOP	<ul style="list-style-type: none"> 1. Define class and object 2. Write HTML for a website 3. Use JavaScript in a website 4. Implement Cascading Style Sheets (CSS) in a website 	20
SEIP-IT-WDP-9-O	Work with a Relational Database Management System (RDBMS)	<ul style="list-style-type: none"> 1. Explain the Basics and historical perspectives of databases 2. Define Relational Database Management System (RDBMS) 3. Work with database 4. Identify join query 	25
SEIP-IT-WDP-10-O	Create Dynamic Web Application	<ul style="list-style-type: none"> 1. Develop a website using PHP 2. Develop a website in PHP 3. Prepare a project document 4. Apply data sanitization for security 5. Apply server side validation 6. Upload and download files 7. Apply pagination 8. Use Client side validation 9. Apply Drupal's Ajax framework 10. Perform search / filter data 	90
Total Hours			250