



**Australian Government**

# **Assessment Requirements for ICTPRG556 Implement and use a model view controller framework**

**Release: 1**

# Assessment Requirements for ICTPRG556 Implement and use a model view controller framework

## Modification History

| Release   | Comments                                                                                                     |
|-----------|--------------------------------------------------------------------------------------------------------------|
| Release 1 | This version first released with ICT Information and Communications Technology Training Package Version 6.0. |

## Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- create at least one model view controller (MVC) project and confirm functionality of framework, including:
  - HTTP handlers and routes for GET, POST, PUT and DELETE requests
  - HTML templates, view models and dynamic rendering
  - HTTP request, responses and redirects.

## Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- language used in object-oriented (OO) programming
- HTTP protocol
- functions and features of debugging and testing tools
- principles of model view controller design pattern, conventions and architecture, including:
  - scalability
  - maintainability
  - reusability
- features, structures, logic and modes of interactions between models, controllers and views, including:
  - HTTP Request/Response and redirects
  - HTTP request handlers, routes and parameters
  - Query strings and key/value pairs
  - model binding
  - convention over configuration

- HTML language, templates and dynamic rendering
- view models and data models.

## Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- model view controller framework
- integrated development environment (IDE) required to implement MVC frameworks
- the internet, including connectivity
- required hardware, software and applications.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

## Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>