

**WORLD SKILLS SINGAPORE 2025**  
**TECHNICAL DESCRIPTION**  
**WEB TECHNOLOGIES**



**Skills Competition**

1. This competition covers a broad range of technical skills as well as disciplines and their application in the production and maintenance of overall Web Technologies.
2. It involves implementing specific solutions that follow business rules and objectives and converting these into website specification.
3. Conducted as an individual event, competitors are given 6 hours over 3 days to complete the Test Projects for this competition.

**Scope of Work**

4. Competitors must be able to demonstrate competencies in the following areas:
  - 4.1. Work organization and management
  - 4.2. Communication and interpersonal skills
  - 4.3. Design implementation
  - 4.4. Front-end development
  - 4.5. Back-end development

**Assessment**

5. Competitors will be assessed based on measurement (objective) and judgement (subjective) marking / measurement marking only.
6. The assessment criteria and relative weighting of marks are as follows:

<b>Criterion</b>		<b>Marks</b>
A	Work organization and management	5.00
B	Communication and interpersonal skills	5.00
C	Design implementation	25.00
D	Front-end development	25.00
E	Back-end development	40.00
<b>Total</b>		<b>100</b>

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**Major Tools & Materials**

7. The following tools and materials will be used in the competition:
  - 7.1. World Wide Web Consortium for HTML and CSS
  - 7.2. Javascript
  - 7.3. Open Source server side Libraries and Frameworks
  - 7.4. MySQL
  - 7.5. FTP server and client relationships and software packages
  - 7.6. Software design pattern
  - 7.7. Web application security
  
8. For the software required, please view the complete list in ***Annex A: WorldSkills Singapore 2025 – Software List.***

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**Annex A: WorldSkills Singapore 2025 - Software List**

(A) Competitor/Marking Station

S/N	Software Title	Version & Details	Extensions / Dependencies
1	Visual Studio Code [user version]	V1.95	Emmet, ftp-sync, livereload, babel, PHP tools, laravel-blade, sass, eslint, vetur, vim, auto Rename Tag, Laravel extra intellisense, CSS intellisense, PHP Intelephense
2	PHP Storm	v2024.2.4  - To add plugin – live edit [setting/plugin/marketplace]	Live edit, Composer
3	Composer	V2.8.1	PHP Storm, Laravel, WordPress
4	NodeJS (with npm 10.8.2)	V22.11.0 LTS	npm 10.8.2, VueJS, ReactJS
5	Code Igniter	V4.5.5	PHP Storm, Composer
6	Laravel	V11.27.2	PHP Storm, Composer, NodeJS
7	VueJS and CLI (@vue/cli)	VueJS: V3.5.12 (latest Vue 3.x stable release) @vue/cli: V5.0.8  Vue-router: V4.4.5 Axios: V1.7.7 Vuex: V4.0.2 Pinia: V2.2.6 Vue-devtools: V7.6.4	NodeJS, Vue-router, Axios, Vuex, Vue-devtools
8	ReactJS with ReactDOM	V18.3.1	NodeJS, ReactDOM
9	Bootstrap	V5.3.3	jQuery, Popper.js
10	jQuery	V3.7.1	Bootstrap, WordPress
11	Popper.js	V2.11.8 LTS	Bootstrap
12	Chart.js	V4.4.4	NodeJS
13	Next.js	V14.2	
14	Vite	V6.0.2	

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(B) Web Server (VM)

Domain Name: ws.org

S/N	Software Title	Version & Details
1	Ubuntu OS	V24.04.1
2	Apache 2	V2.4.62
3	PHP	V8.3.13
4	MariaDB	V11.4.4 (current LTS)
5	Adminer	
6	PhpMyAdmin	V5.3.0

(C) Virtual Machine (VM) Specification (One VM per competitor)

Processor: 1 vCPU

Memory: 2 GB

Virtual HDD: 35 GB