

**WORLD SKILLS SINGAPORE 2025**  
**TECHNICAL DESCRIPTION**  
**IT NETWORK SYSTEMS ADMINISTRATION**



**Skill Competition**

1. This competition covers a broad range of installation, configuration, troubleshooting and maintenance activities/tasks dealing with networks and computer systems.
2. Conducted as an individual event, competitors are given 18 hours over 3 days to complete the Test Projects for this competition. The Test Projects consists only of practical work.
3. The theoretical knowledge is limited to that necessary to carry out the practical work.

**Scope of Work**

4. Competitors must be able to demonstrate competencies in the following areas:
  - 4.1. Linux Environments
  - 4.2. Microsoft Windows Environments
  - 4.3. Networking Environments
5. Competitors should at least be able to perform all the specified tasks as listed within the following certification levels:
  - 5.1. Advanced Level Linux Certification LPIC-2
  - 5.2. Microsoft Certified Solution Associate (MCSA) – Windows Server 2016 & Windows 10 (for reference only, due to retirement of certifications)
  - 5.3. Cisco Certified Network Associate (CCNA)

**Assessment**

6. Competitors will be assessed based on Measurement and/or Judgement marking.

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7. The assessment criteria and relative weighting of marks are as follows:

<b>Criterion</b>		<b>Marks</b>
A	Linux Environments	33
B	Microsoft Windows Environments	33
C	Networking Environments	34
<b>Total</b>		<b>100</b>

**Major Equipment & Materials**

8. The following equipment (hardware and software) and materials will be used in the competition:

8.1. Equipment

For hardware and software required, please refer to the hardware and software as defined by the respective industry certifications listed under point (5) above.

8.2. For the Networking Environments, the Cisco Modeling Labs network simulation software will be used in lieu of physical networking hardware.

8.3. Materials

The following materials will be supplied to each competitor in the competition:

- Removable data storage media
- Stationary for documentation purposes
- Consumables where required for the project(s)