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| Title | **Explain internet working** | | |
| Level | **2** | **Credits** | **3** |

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| Purpose | The competency standard is about introducing students to the web development process and imparting knowledge that will enable the learner to explain the internet and computer networks. |

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| Classification ISCED | 0613 Software and applications development and analysis |

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| Available grade | Competent / Not yet competent |

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| Modification history | N/A |

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| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
| **A1. Explain the history and evolution of internet** | **Trainee will be able to:**  **P1.** Recount different Eras of Internet Evolution  **P2.** Use internet for:   * Effective Research * Preparing Reports * Efficient Communication * Getting Updates * Different learning methods | **Trainee will be able to:**  **KI.** Define internet  **K2.** Discuss the history and evolution of internet  **K2.** Explain the working of internet |
| **A2: Define and differentiate software and hardware** | **Trainee will be able to:**  **P1.** Recount the history of Software Evolution  **P2.** Identify different types of software like:   * Application Software * System Software   **P3.** Handle the working of different software:   * Installation * Implementation   **P4.** Recount the history of Hardware Evolution | **Trainee will be able to:**  **K1.** Define software  **K2.** Spell out the role of software in a computer system  **K3.** Explain different types of software  **K4.** Elaborate the working of software  **K5.** Define hardware  **K6. E**xplicate the importance of hardware in a computer |

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|  | **P5.** Classify different components of Hardware like:   * Input Devices (Keyboard, Mouse, Scanner, etc) * Output Devices (Monitor, Printer, etc)   **P6.** Identify appropriate networking hardware including   * routers, switches, hubs and gateways * Cables * Adapters * servers, firewalls   **P7.** Identify the difference between software and hardware | system  **K7.** Give in details of different hardware components in a computer  **K8.** Label different hardware components in a computer  **K9.** Define networking Hardware  **K10.** List different networking hardware  **K11.** Classify the difference between software and hardware |
| **A3: Elaborate the working of computer networks** | **Trainee will be able to:**  **P1.** Share understanding of network  **P2.** Recall the history of network  **P3.** Identify different Network topologies such as:   * Bus topology * Ring topology * Star topology * Mesh topology   **P4.** Recognise basic components of a computer network such as:   * NIC (Network Interface Card) | **Trainee will be able to:**  **K1.** Define a network  **K2.**Recount the history of networks  **K3.** Generelise network topologies  **K4.** List the basic components of a computer network |

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|  | * Hub * Switch * Router * Network Cables   **P5.** Identify computer networks | **K5.** Explain the working of a computer network |
| **A4: Differentiate different types of networks** | **The trainee will be able to:**  **P1.** Identify the different types of network and their functionality such as:   * Personal Area Network * Local Area Network * Campus Area Network * Metropolitan area network * Wide Area Network * Virtual Private Network   **P2.** Categorise different network types | **The trainee will be able to:**  **K1.** List down the different types of network in order of scalability  **K2.** Elaborate the functionality of different types of network  **K3.** Describe the difference between different types of networks |