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| **DATE:** | 6/03/2019 | **TUTOR** |  | **LESSON LENGTH:** | 6 Hours | **LESSON N0:** | *1 of 2* |
| **TRAINING GOAL** | | | | | | | |
| Introduce networking concepts | | | | | | | |
| **LEARNING OUTCOMES:** By the end of the lesson students will be able to: | | | | | | | |
| * Explain how multiple networks are used in everyday life. * Explain the topologies and devices used in a small to medium-sized business network. * Explain the basic characteristics of a network that supports communication in a small to medium-sized business. * Explain the purpose of Cisco IOS. * Explain how to access and navigate Cisco IOS to configure network devices. * Describe the command structure of Cisco IOS software. * Configure hostnames on a Cisco IOS device using the CLI. * Use Cisco IOS commands to limit access to device configurations. | | | | | | | |
| **LESSON BREAKDOWN & DELIVERY METHODS:** Describe student/teacher activities. Consider logical progression and application of skills.   |  |  | | --- | --- | | WHAT THE TUTOR WILL DO:  Introduction to Paper  Introduction the schedule for today. | WHAT STUDENTS WILL DO:  Students to visualize how you are connected, through the Internet, to those places, people, or businesses with whom (or which) you interact on a daily basis. After reflection and sketching your home’s or school’s topology, you can draw conclusions about the Internet that you may not have thought of prior to this activity. | | | | | | | | | |
| LESSON – Add or delete boxes as required   |  |  |  | | --- | --- | --- | | SPECIFIC LEARNING OUTCOME:   * Explain how multiple networks are used in everyday life. | WHAT THE TUTOR WILL DO:   * Present Slides Chapter 1 – Section 1 breaking to lab and pre-set point to allow hands on group discussion activities relating to presented materials. | WHAT STUDENTS WILL DO (to achieve the learning outcome):   1. Ask students to identify collaboration tools that they currently use 2. Students to create a new Google account web page 3. Students to create a new Google document 4. Student to share documents created with other group member 5. Student to investigate conferencing and web meeting tools available individually and then in your groups book and join a meeting with WebEx | |  |  |  |  |  |  |  | | --- | --- | --- | | SPECIFIC LEARNING OUTCOME:   * Explain the topologies and devices used in a small to medium-sized business network. * Explain the basic characteristics of a network that supports communication in a small to medium-sized business. * Explain the purpose of Cisco IOS. * Explain how to access and navigate Cisco IOS to configure network devices. * Describe the command structure of Cisco IOS software. * Configure hostnames on a Cisco IOS device using the CLI. * Use Cisco IOS commands to limit access to device configurations. | WHAT THE TUTOR WILL DO:   * Present Slides Chapter 2, breaking to lab and pre-set point to allow hands on group discussion activities relating to presented materials | WHAT STUDENTS WILL DO (to achieve the learning outcome):  Labs   * 2.0.1.2 Class Activity - It is Just an Operating System Instructions IG * 2.1.4.9 Lab - Establishing a Console Session with Tera Term – ILM * 2.3.3.4 Lab - Building a Simple Network – ILM * 2.3.3.5 Lab - Configuring a Switch Management Address – ILM   Packet Tracer Exercises   * 2.1.4.8 Packet Tracer - Navigating the IOS Instructions IG * 2.2.3.3 Packet Tracer - Configuring Initial Switch Settings Instructions IG * 2.3.2.5 Packet Tracer - Implementing Basic Connectivity Instructions IG * 2.4.1.2 Packet Tracer - Skills Integration Challenge Instructions IG |      |  |  |  | | --- | --- | --- | | SPECIFIC LEARNING OUTCOME:   * N/A Wrap session | WHAT THE TUTOR WILL DO:   * Review objectives and key learning from the day | WHAT STUDENTS WILL DO (to achieve the learning outcome):  Students to update or redo their sketch’s of home’s or school’s topology, you can draw conclusions about the Internet that you may not have thought of prior to this activity. Handout provided to student | | | | | | | | | |
| **RESOURCES:** (List the materials you will require for your lesson) | | | | | | | |
| Slides   * Course Slides Chapter 1 * Course Slides Chapter 2   Labs   * 1.3.1.3 Lab - Mapping the Internet – ILM * 1.4.4.3 Lab - Researching IT and Networking Job Opportunities – ILM * 1.5.1.1 Class Activity - Draw Your Concept of the Internet Now Instructions IG * 2.0.1.2 Class Activity - It is Just an Operating System Instructions IG * 2.1.4.9 Lab - Establishing a Console Session with Tera Term – ILM * 2.3.3.4 Lab - Building a Simple Network – ILM * 2.3.3.5 Lab - Configuring a Switch Management Address – ILM   Packet Tracer Exercises   * 1.2.4.4 Packet Tracer - Representing the Network Instructions IG * 2.1.4.8 Packet Tracer - Navigating the IOS Instructions IG * 2.2.3.3 Packet Tracer - Configuring Initial Switch Settings Instructions IG * 2.3.2.5 Packet Tracer - Implementing Basic Connectivity Instructions IG * 2.4.1.2 Packet Tracer - Skills Integration Challenge Instructions IG | | | | | | | |