

| Time   | Strand          | Outcome                            | Competencies   | Resources   | Assessment  |
|--------|-----------------|------------------------------------|--|---|---|
| 3 Days | IT Fundamentals | 2.4 Emerging Technologies          | <p>2.4.1. Investigate the scope and the impact of mobile computing environments on society.</p> <p>2.4.2. Describe the differences, advantages, and limitations of cloud computing (e.g., public cloud, private cloud, hybrid cloud) and on-premises computing.</p> <p>2.4.3. Utilize cloud computing applications (e.g. services, applications, virtual environments).</p>  | <p>Mobile computing survey.</p> <p>Cloud platform comparison.</p> <p>Setup another cloud service to backup GDrive.</p>  | <p>Quiz Emerging Technologies</p> <p>Successful backup of GDrive to another cloud platform.</p> |
| 3 Days | IT Fundamentals | 2.3 Data Encoding                  | <p>2.3.1. Identify and explain coding information and representation of characters (e.g., American Standard Code for Information Interchange [ASCII], Extended Binary Coded Decimal Interchange Code [EBCDIC], Unicode).</p> <p>2.3.2. Convert between numbering systems (e.g., binary, hexadecimal, decimal).</p>   | <p>Number system presentation &amp; videos.</p> <p>Practice conversions between number systems and metric prefixes.</p> | <p>Quiz over number conversions and metric prefixes.</p>  |
| 4 Days | IT Fundamentals | 2.1 Security Risks, and Safeguards | <p>2.1.1. Explain the need for confidentiality, integrity, and availability (CIA) of information.</p> <p>2.1.2. Describe authentication, authorization, and auditing.</p> <p>2.1.3. Describe multilevel security.</p> <p>2.1.4. Identify security risks and describe associated safeguards and methodologies (e.g., auditing).</p> <p>2.1.5. Describe major threats to computer systems (e.g., internal threats, viruses, worms, spyware, malware, ransomware, spoofing, hacking).</p> | <p>Security Presentation &amp; Videos.</p> <p>Case Study- Security in an enterprise</p>                                 | <p>Quiz over enterprise security.</p>   |