Course Learning Outcomes

By the end of this course, a student should be able to:

- Identify technical assets
- Analyze threats to technical assets
- Formulate a threat likeliness reduction strategy
- Design a threat impact reduction plan
- Identify methods to mitigate risks
- Prepare a business continuity plan
- Prepare a disaster recovery plan

Course Outline

1. Assets
   1.1 Seven Domains of Information Technology
   1.2 Data
      1.2.1 Confidentiality
      1.2.2 Integrity
      1.2.3 Availability
      1.2.4 Possession
      1.2.5 Authenticity
      1.2.6 Utility
   1.3 Business functions and processes
2. Threats
   2.1 Categories of Threats
      2.1.1 Threat Sources
      2.1.2 Threat Impact
   2.2 Vulnerabilities
   2.3 Exploits
   2.4 Threat Agents
3. Identifying Risk
   3.1 Calculating Likelihood of Occurrence
   3.2 Calculating the Cost of an Occurrence
   3.3 Threat Matrix
4. Risk Mitigation
   4.1 Risk Reduction
   4.2 Transference
   4.3 Removal
   4.4 Acceptance