Course Syllabus

Introduction to IT & Cybersecurity

Instructor Name: Ken Underhill   Instructor Website: N/A

Instructor Contact: N/A   Course Creation Date: 02/19/2021

Course Description and Goals

Course Description: This course will introduce students to different careers in Information Technology (IT) and Cybersecurity. We will cover several career roles in this course - Network Administrator, Incident Responder (Digital Forensics and Incident Response or called just Incident Responder), System Administrator (SysAdmin), Penetration Tester (sometimes called Ethical Hacker), Cloud Engineer, Cybersecurity Manager, and Privacy Analyst. The course will provide an overview of each career, common responsibilities of the career, common tools used, and common certifications for each role. The course will also provide students with demonstrations of some of the tools in use and/or tasks they may be expected to perform in each career role. A main goal of this course is to help you make a decision on the right career for you to pursue in IT or cybersecurity.

Target Audience : This entry level course is targeted toward anyone that is interested in IT or cybersecurity, but that doesn't know where to start in their career journey. It's also beneficial for recruiters to understand some of the job roles they may be hiring for and it's beneficial to individuals writing job descriptions.

Course Level : Beginner

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Prerequisites: No specific technical prerequisites are required for this course.

Supplementary Materials: There are supplemental materials provided with this course in the Resource section.

Course Goals: By the end of this course, students should be able to:

- ❏ Understand an overview of different IT and Cybersecurity careers
- ❏ Understand common responsibilities of each role
- ❏ Identify common certifications for each role
- ❏ Understand key skills needed in each role
- ❏ Identify the career path to get started with

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Course Outline

Module 1 | Introduction
      Lesson 1.1: Introduction

Module 2 | System Administrator
      Lesson 2.1: Introduction to Becoming a System Administrator
      Lesson 2.2: Linux Creating Users and Groups Demo
      Lesson 2.3: Windows Defender Configuration Demo

Module 3 | Network Administrator
      Lesson 3.1: Introduction to Becoming a Network Administrator
      Lesson 3.2: Wireshark Demo

Module 4 | Digital Forensics and Incident Response (DFIR)
      Lesson 4.1: Introduction to Becoming an Incident Responder
      Lesson 4.2: PCAP Analysis with Wireshark Demo

Module 5 | Penetration Tester
      Lesson 5.1: Introduction to Becoming a Penetration Tester
      Lesson 5.2: Password Cracking Demo
      Lesson 5.3: NMAP Demo

Module 6 | Cloud Engineer
      Lesson 6.1: Introduction to Becoming a Cloud Engineer

Module 7 | Cybersecurity Management
      Lesson 7.1: Introduction to Becoming a Cybersecurity Manager

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Module 8 | Privacy Analyst

    Lesson 8.1: Introduction to Becoming a Privacy Analyst

Module 9 | Conclusion

    Lesson 9.1: Conclusion

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