

## CONTINUING EDUCATION

### COURSE OUTLINE – Communication and Network Security

**INSTRUCTOR:** N/A

**PHONE:** 780-539-2975

**OFFICE:** M105

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**PREREQUISITE(S):** None

**REQUIRED TEXT/RESOURCE MATERIALS:**

Course materials are included.

**CALENDAR DESCRIPTION:**

This course covers topics related to communications and network security. It begins with a lesson in the different types of networks and different transmission technologies. It also covers the two main models that govern how networks work: the OSI model and the TCP/IP model, as well as their related layers. The course includes a detailed discussion of the many protocols that allow networks and network devices to communicate with one another and includes a discussion of firewalls and wireless networks. This course is designed for IT professionals and other adult learners who are interested in gaining an introduction to information technology security.

The content in this course aligns with Domain Four in the CISSP exam, offered by (ISC)2. However, the course can be taken as a stand-alone without the intention of sitting for the exam.

**CONTACT HOURS:** 5 hours

**CEUs:** 0.5

**PDU:** 5

**DELIVERY MODE:** Online self-paced

**TRANSFERABILITY:** N/A

**GRADING CRITERIA:**

Upon successful completion of the course, you will receive a Certificate of Completion.

**EVALUATIONS:** Learners must achieve an average test score of at least 70% to meet the minimum successful completion requirement and qualify to receive IACET CEUs.

The following list outlines the PDUs you will earn for completing this course, based on the certification you have.

Designation	Technical	Leadership	Strategic/Business	TOTAL
PMP®/PgMP®	4	0	1	5
PMI-RMP®	4	0	1	5
PMI-SP®	0	0	1	1
PMI-ACP®	4	0	1	5
PfMP®	0	0	1	1
PMI-PBA®	0	0	1	1

**STUDENT RESPONSIBILITIES:** Completion of any practice lessons, quizzes, assignments, or tests.

**COURSE SCHEDULE/TENTATIVE TIMELINE:**

Dates vary (refer to website for current availability).

**LEARNING OUTCOMES:**

Upon successful completion of this course, learners will be able to:

- Discuss the general concepts that enable networking and its role in information technology
- Compare the different types of networks, including LANs, WANs, and MANs, as well as the Internet, intranets, and extranets
- Explain what the Open Systems Interconnection (OSI) Reference Model is and identify its seven layers
- Contrast the OSI model with the TCP/IP Model
- Identify common protocols and differentiate between network, routing, and data link protocols
- Describe the functions of common networking devices, including bridges, routers, hubs, repeaters, switches, and firewalls
- Discuss how wireless networks work and the technology that enables them
- Identify common network attacks and how they can be prevented