

CONTINUING EDUCATION

COURSE OUTLINE – Cryptography Scenarios

INSTRUCTOR: N/A

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PREREQUISITE(S): This course requires some basic understanding of IT concepts.

REQUIRED TEXT/RESOURCE MATERIALS:

Course materials are included.

CALENDAR DESCRIPTION:

This course contains an introduction to the key concepts of cryptography and security engineering. It examines the role of encryption in information security and considers common encryption methods. This course also features a number of fictional scenarios based on cryptography to help you apply the concepts to situations you may see in the real world.

This course is part of the Cybersecurity suite of courses. However, the course can be taken as a stand-alone course.

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®	3	0	2	5
PMI-RMP®	3	0	2	5
PMI-SP®	0	0	2	2
PMI-ACP®	3	0	2	5
PfMP®	0	0	2	2
PMI-PBA®	0	0	2	2

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:

- Understand how cryptography works and its role in information security
- Compare and contrast different ciphers and explain how they work
- Create substitution ciphers and encode and decode plaintext and ciphertext
- Discuss how encryption enables secure transmission of sensitive data
- Explain and compare symmetric and asymmetric cryptography
- Describe the role of public key infrastructure and key management
- Apply concepts and knowledge to real-world scenarios that involve cryptographic challenges