

uCertify

Course Outline

Practical Cyber Threat Intelligence



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1. Exercises, Quizzes, Flashcards & Glossary

Number of Questions

2. Expert Instructor-Led Training

3. ADA Compliant & JAWS Compatible Platform

4. State of the Art Educator Tools

5. Award Winning Learning Platform (LMS)

6. Chapter & Lessons

Syllabus

Chapter 1: Preface

Chapter 2: Basics of Threat Analysis and Modeling

Chapter 3: Formulate a Threat Intelligence Model

Chapter 4: Adversary Data Collection Sources & Methods

Chapter 5: Pivot Off and Extracting Adversarial Data

Chapter 6: Primary Indicators of Security Compromise

Chapter 7: Identify & Build Indicators of Compromise

Chapter 8: Conduct Threat Assessments In Depth

Chapter 9: Produce Heat Maps, Infographics & Dashboards

Chapter 10: Build Reliable & Robust Threat Intelligence System

Chapter 11: Learn Statistical Approaches for Threat Intelligence

Chapter 12: Develop Analytical Skills for Complex Threats

Chapter 13: Planning for Disaster

Videos and How To

1. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

2. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

3. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

4. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- 2014
 1. Best Postsecondary Learning Solution

- **2015**

1. Best Education Solution
2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

5. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Preface

Chapter 2: Basics of Threat Analysis and Modeling

- Introduction
- Defining threat modelling
- Understanding the threat modelling process
- Threat modelling methodologies
- Conclusion
- Further Reading

Chapter 3: Formulate a Threat Intelligence Model

- Introduction
- Understanding threat intelligence
- Defining bad intelligence
- Comparing good and bad intelligence
- Contrasting good from bad intelligence
- Good and bad intelligence shapes threat modeling
- Keepnet Threat Intelligence Sharing Community (TISC)
- Detailed description
- Conclusion
- Further reading

Chapter 4: Adversary Data Collection Sources & Methods

- Introduction
- Adversary-based threat modelling
- Understanding our organizations
- Understanding our adversaries
- Adversary playbook

- Hands-On MITRE ATT&CK
- MITRE ATT&CK Use Cases
- Conclusion
- Further reading

Chapter 5: Pivot Off and Extracting Adversarial Data

- Introduction
- Setting up a mitigation plan
- Budgeting for the incident response events
- Taking the necessary precautions
- Conclusion
- Incident Response
- Execution of Malware
- Configuration
- Conclusion
- Data Exfiltration Analysis
- Summary & Findings
- Further reading

Chapter 6: Primary Indicators of Security Compromise

- Introduction
- Common indicators of compromise
- Challenges of IOCs
- Tactics, Techniques, and Procedures (TTP)
- Summary
- Further reading

Chapter 7: Identify & Build Indicators of Compromise

- Introduction
- Data correlation
- Creating system log entry files data
- Creating anomalies in privileged user account activity
- LAB: Data Collection
- Key Windows Services
- Conclusion
- Further reading

Chapter 8: Conduct Threat Assessments In Depth

- Introduction

- Malware analysis
- SQL injections analysis
- Conclusion
- Further reading

Chapter 9: Produce Heat Maps, Infographics & Dashboards

- Introduction
- Understanding a heat map
- 2D density plots
- When to use heat maps
- Best practices for using heat maps
- Common heat map options
- Visualization tools
- Conclusion
- Further Reading

Chapter 10: Build Reliable & Robust Threat Intelligence System

- Introduction
- Conclusion

- Further reading

Chapter 11: Learn Statistical Approaches for Threat Intelligence

- Introduction
- Data preparation
- Data classification
- Data validation
- Data correlation
- Data scoring
- Summary
- Further reading

Chapter 12: Develop Analytical Skills for Complex Threats

- Introduction
- Understanding analytical skills
- Identifying common threats and learning how they work
- Distributed Denial-of-Service (DDoS) attacks
- Identifying threat objectives
- Identifying threat mitigation methods and tools

- Researching on New Threats and Changing Threats Landscape
- Understanding Various Organizations and Assets That May Be Targeted
- Understanding Adversary Attack Vectors and Various Vulnerabilities
- Conclusion
- Further reading

Chapter 13: Planning for Disaster

- Introduction
- Defining APTS
- Zero-day vulnerabilities
- Defining zero-day threats
- Planning against APT attacks
- Summary
- Further reading

You can't stay away! Get



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