

uCertify

Course Outline

**Cybersecurity Risk Management-NIST
Framework**



18 May 2024

1. Course Objective
2. Pre-Assessment
3. Exercises, Quizzes, Flashcards & Glossary
Number of Questions
4. Expert Instructor-Led Training
5. ADA Compliant & JAWS Compatible Platform
6. State of the Art Educator Tools
7. Award Winning Learning Platform (LMS)
8. Chapter & Lessons

Syllabus

Chapter 1: Preface – Overview of the NIST Framework

Chapter 2: Cybersecurity Risk Planning and Management

Chapter 3: User and Network Infrastructure Planning and Management

Chapter 4: Tools and Techniques for Detecting Cyber Incidents

Chapter 5: Developing a Continuity of Operations Plan

Chapter 6: Supply Chain Risk Management

Chapter 7: Manufacturing and Industrial Control Systems Security

Chapter 8: Appendix A: Helpful Advice for Small Organizations...plement Some of the Book's Recommendations

Chapter 9: Appendix B: Critical Security Controls Version 8.0 Mapped to NIST CSF v1.1

Videos and How To

9. Practice Test

Here's what you get

Features

10. Live labs

Lab Tasks

Here's what you get

1. Course Objective

The Cybersecurity Risk Management-NIST Framework course provides essential knowledge about the National Institute of Standards and Technology (NIST) Framework for effective risk management in cybersecurity. With interactive lessons and hands-on labs, you'll learn to apply this comprehensive framework practically, making it accessible to both cybersecurity professionals and non-specialists. Gain insights into its background, risk management foundation, and core components to enhance your organization's cybersecurity practices successfully.

2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

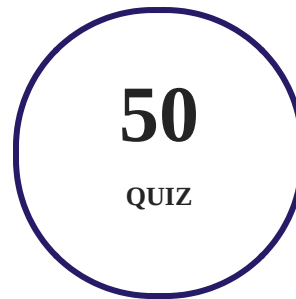
3. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.



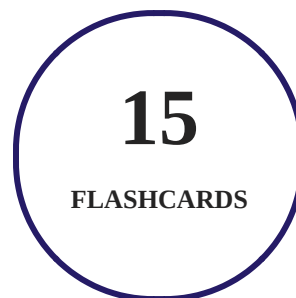
4. Quiz

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.



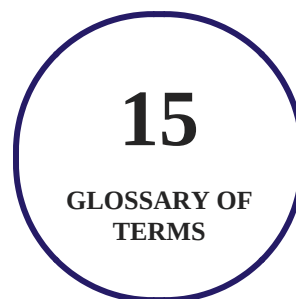
5. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



6. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



7. 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.

8. 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.

9. 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.

10. 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

11. 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 – Overview of the NIST Framework

- BACKGROUND ON THE FRAMEWORK
- FRAMEWORK BASED ON RISK MANAGEMENT
- THE FRAMEWORK CORE

- FRAMEWORK IMPLEMENTATION TIERS
- FRAMEWORK PROFILE
- OTHER ASPECTS OF THE FRAMEWORK DOCUMENT
- RECENT DEVELOPMENTS AT NIST

Chapter 2: Cybersecurity Risk Planning and Management

- INTRODUCTION
- WHAT IS CYBERSECURITY RISK MANAGEMENT?
- ASSET MANAGEMENT
- GOVERNANCE
- RISK ASSESSMENT AND MANAGEMENT
- SUMMARY
- ESSENTIAL READING ON CYBERSECURITY RISK MANAGEMENT

Chapter 3: User and Network Infrastructure Planning and Management

- INTRODUCTION
- INFRASTRUCTURE PLANNING AND MANAGEMENT IS ALL ABOUT PROTECTION, WHERE THE RUBBER MEETS THE ROAD
- AWARENESS AND TRAINING

- DATA SECURITY
- INFORMATION PROTECTION PROCESSES AND PROCEDURES
- MAINTENANCE
- PROTECTIVE TECHNOLOGY
- SUMMARY
- ESSENTIAL READING ON NETWORK MANAGEMENT

Chapter 4: Tools and Techniques for Detecting Cyber Incidents

- INTRODUCTION
- WHAT IS AN INCIDENT?
- DETECT
- SUMMARY
- ESSENTIAL READING FOR TOOLS AND TECHNIQUES FOR DETECTING A CYBERATTACK

Chapter 5: Developing a Continuity of Operations Plan

- INTRODUCTION
- ONE SIZE DOES NOT FIT ALL
- RESPONSE

- ANALYSIS
- MITIGATION
- RECOVER
- SUMMARY
- ESSENTIAL READING FOR DEVELOPING A CONTINUITY OF OPERATIONS PLAN

Chapter 6: Supply Chain Risk Management

- INTRODUCTION
- NIST SPECIAL PUBLICATION 800-161
- SOFTWARE BILL OF MATERIALS
- NIST REVISED FRAMEWORK INCORPORATES MAJOR SUPPLY CHAIN CATEGORY
- SUMMARY
- ESSENTIAL READING FOR SUPPLY CHAIN RISK MANAGEMENT

Chapter 7: Manufacturing and Industrial Control Systems Security

- ESSENTIAL READING ON MANUFACTURING AND INDUSTRIAL CONTROL SECURITY

Chapter 8: Appendix A: Helpful Advice for Small Organizations...plement Some of the Book's Recommendations

12. Practice Test

Here's what you get

Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

13. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations

- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

Lab Tasks

Cybersecurity Risk Planning and Management

- Conducting Vulnerability Scanning Using Nessus
- Performing Vulnerability Scanning Using OpenVAS

User and Network Infrastructure Planning and Management

- Configuring a Default Domain Password Policy
- Setting Up a VPN Server
- Configuring AAA for Device Access Control
- Using Windows Firewall
- Taking a Full Backup

Tools and Techniques for Detecting Cyber Incidents

- Simulating the DDoS Attack
- Configuring Outbound Rules for a Firewall
- Testing an Antivirus Program

Developing a Continuity of Operations Plan

- Using FTK Imager

Supply Chain Risk Management

- Examining an Intrusion Detection Policy

Here's what you get

12

LIVE LABS

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VIDEO TUTORIALS

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MINUTES

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