

CGRC Exam Preparation Course (Self-Paced)

Learn the seven CGRC domains for taking a system from risk categorization through authorization and monitoring.

Group classes in Live Online and onsite training is available for this course. For more information, email onsite@graduateschool.edu or visit: <https://www.graduateschool.edu/courses/cgrc-exam-preparation-course-self-paced>



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Course Outline

Module 1: Foundations of Information Security Risk Management

- Lessons:
 - What risk management means for an information system
 - The risk management life cycle: from NIST SP 800-37 to the CGRC's seven domains
 - Federal and commercial risk management compared
- Applied activity: Learners map a provided case-study organization's risk decisions to the seven-step life cycle and identify which step is weakest.

Module 2: Risk Management Roles, Governance and Legal Authorities

- Lessons:
 - Core roles: authorizing official, ISSO, system owner and risk executive
 - Governance structures that oversee the program
 - Legal and policy authorities behind federal risk management, and their commercial equivalents
- Applied activity: Learners sort ten responsibilities into the correct role and justify one placement in writing.

Module 3: Aligning the Risk Management Program with Organizational Risk Tolerance

- Lessons:
 - Defining organizational risk tolerance and risk appetite
 - Building a risk management strategy that reflects tolerance
 - Communicating risk tolerance decisions to system-level teams
- Applied activity: Learners draft a short risk tolerance statement for a fictional organization and explain how it would change one downstream control decision.

Module 4: Defining the System and Its Authorization Boundary

- Lessons:

- What counts as a system for authorization purposes
- Drawing the authorization boundary
- Common boundary-scoping mistakes
- Applied activity: Given a network diagram, learners draw the authorization boundary and justify what is included or excluded.

Module 5: Categorizing Information and Information Systems

- Lessons:
 - Information types and impact levels
 - Applying FIPS 199 categorization to confidentiality, integrity and availability
 - Documenting the categorization decision
- Applied activity: Learners categorize a public-facing website and a payroll system and defend their impact ratings.

Module 6: Registering the System and Assigning Security Responsibilities

- Lessons:
 - System registration and inventory requirements
 - Assigning the system owner, ISSO and other security roles
 - Linking scoping decisions to the system security plan
- Applied activity: Learners complete a short system registration form for a case-study system, assigning roles and citing its categorization.

Module 7: Control Baselines and Tailoring

- Lessons:
 - Control families and baselines in NIST SP 800-53
 - Tailoring a baseline to a system's actual risk
 - Documenting tailoring decisions
- Applied activity: Learners select a baseline for a moderate-impact case-study system and tailor two controls, documenting the rationale.

Module 8: Selecting Privacy Controls and Overlays

- Lessons:
 - Privacy controls and their relationship to security controls
 - Applying overlays for specialized environments
 - Coordinating privacy and security control selection
- Applied activity: Learners identify which privacy controls apply to a system that processes personally identifiable information and select an overlay.

Module 9: Documenting Controls in the System Security Plan

- Lessons:
 - Purpose and structure of the system security plan
 - Writing defensible control implementation statements
 - Review and approval of the security plan
- Applied activity: Learners write one implementation statement for a selected control and self-review it against a provided checklist.

Module 10: Translating the Security Plan into Implemented Controls

- Lessons:
 - From plan to practice: implementation planning
 - Sequencing implementation by risk priority
 - Common implementation gaps

- Applied activity: Learners build a short implementation checklist for one technical and one administrative control.

Module 11: Common Controls, Inheritance and Shared Responsibility

- Lessons:
 - Common controls and control inheritance
 - Shared responsibility in cloud and multi-tenant environments
 - Documenting inherited controls
- Applied activity: Given a cloud provider's responsibility matrix, learners identify which controls the system owner must still implement.

Module 12: Recording Implementation Evidence

- Lessons:
 - What counts as implementation evidence
 - Organizing evidence for later assessment
 - Avoiding evidence gaps before assessment begins
- Applied activity: Learners assemble a short evidence package for one implemented control from a case study.

Module 13: Building the Security Assessment Plan

- Lessons:
 - Purpose and components of a security assessment plan
 - Scoping the assessment to the system boundary
 - Selecting assessment procedures from NIST SP 800-53A
- Applied activity: Learners draft a one-page assessment plan outline for two controls from the case-study security plan.

Module 14: Assessment Methods: Examine, Interview and Test

- Lessons:
 - The examine method
 - The interview method
 - The test method
- Applied activity: Learners choose the correct assessment method for each of five sample controls and explain why.

Module 15: Analyzing Assessment Results and Identifying Weaknesses

- Lessons:
 - Rating assessment results
 - Distinguishing a weakness from a deficiency
 - Root-cause analysis of a finding
- Applied activity: Given three assessment findings, learners rate severity and identify the likely root cause of each.

Module 16: Reporting Findings in the Security Assessment Report

- Lessons:
 - Structure of the security assessment report
 - Writing findings that support a risk decision
 - Delivering the report to the system owner and authorizing official
- Applied activity: Learners write one finding statement, including recommended remediation, for a case-study control failure.

Module 17: Assembling the Authorization Package

- Lessons:
 - Required components of an authorization package
 - Coordinating inputs from scoping, implementation and assessment
 - Common authorization package deficiencies
- Applied activity: Learners build a checklist confirming a case-study authorization package is complete before submission.

Module 18: Risk Determination and the Authorizing Official's Decision

- Lessons:
 - Weighing residual risk against organizational tolerance
 - The authorizing official's decision options
 - Documenting and communicating the authorization decision
- Applied activity: Given a completed case-study authorization package, learners recommend a decision and justify it in writing.

Module 19: Plans of Action and Milestones

- Lessons:
 - Purpose and structure of a plan of action and milestones
 - Prioritizing and scheduling remediation
 - Tracking a plan of action and milestones to closure
- Applied activity: Learners draft one plan of action and milestones entry for an open finding, including a realistic milestone schedule.

Module 20: Designing a Continuous Monitoring Strategy

- Lessons:
 - Purpose of continuous monitoring in the risk management life cycle
 - Selecting metrics and monitoring frequency
 - Aligning the strategy with organizational risk tolerance
- Applied activity: Learners draft a monitoring frequency table for five control families based on a case-study system's risk level.

Module 21: Ongoing Assessment and Control Effectiveness Over Time

- Lessons:
 - Reassessing controls on an ongoing basis
 - Detecting control drift and degradation
 - Updating the system security plan based on monitoring results
- Applied activity: Given two monitoring snapshots of the same control taken months apart, learners identify signs of drift and recommend an update.

Module 22: Reporting Risk and Security Status to Leadership

- Lessons:
 - Building a risk and security status report
 - Tailoring reporting for technical and executive audiences
 - Feeding status reports back into governance decisions
- Applied activity: Learners rewrite one technical monitoring finding as a two-sentence executive summary suitable for a governance board.

Module 23: System Disposal, Reauthorization and Program Maturity

- Lessons:
 - Reauthorization triggers and timing
 - Secure system disposal and decommissioning

- Maturing a risk management program over time
- Applied activity: Learners identify which of five described events would trigger reauthorization and which apply to disposal instead.