BSCSIA Course Kick Start Guide– C836/D430

Course Applicability: C836/D430, Fundamentals of Information Security

This course lays the foundation for understanding terminology, principles, processes, and best practices of information security at local and global levels. It further provides an overview of basic security vulnerabilities and countermeasures for protecting information assets through planning and administrative controls within an organization.

Prerequisite Courses:

There is no requirement for this course. This course is normally at the beginning of the degree path for most programs.

Typically, successful students complete the course in 30 - 35 **days.**

About This Guide

This Kick Start Guide can be used as supplemental resource to help you get started with the course, get answers to frequently asked questions, and be leveraged to help navigate towards successful completion of the objective assessment for the course. You can find the primary course material for the course by clicking the "Go To Course Material" button on your course page. Reach out to your assigned course instructor for additional guidance once assigned.

Guide Contents

The course is complete when the student passes the Objective assessment.

OA Planning:

Scheduling OAs

Students should follow these steps to schedule a WGU assessment:

1. After logging into the student portal, student navigates to the course for the assessment they want
   to schedule.
2. Student clicks on *Schedule Now*
3. Students choose the date and time they are available to sit for the exam.
4. Student should submit the form.
5. Contact assessment support for additional support.

Students should follow these steps to Reschedule a WGU assessment:
1. After logging into the student portal, student should navigate to the course for the assessment they
   want to reschedule.
2. Go to the Assessments area of the course page and click the *Assessment Center* button under the assessment.
3. From within the Assessment Center, click the *Reschedule* button.
4. Student should enter the new date and time for their assessment.
5. Student should submit the form.
6. Contact assessment support for additional support.

Dry-erase Whiteboard Standards for Online Proctoring
https://cm.wgu.edu/t5/Frequently-Asked-Questions/Can-I-use-scratch-paper-or-a-whiteboard-during-an-objective/ta-p/1693
As of January 1, 2014, using paper and pencil is not permitted during WGU online-proctored objective assessments. Students can use one dry-erase whiteboard and one eraser. Students will be asked to clear the whiteboard after each testing session.
The dry-erase whiteboard must meet the standards listed below:
- Both sides must not have any lettering, graphics, or logos
- May have graphing lines
- Must be erasable

- Cannot have memory
- Must be of a size that can be in full camera view at all times
- Cannot be wall mounted

Note: Remember that **only one** whiteboard can be used during the online-proctored assessment.

The eraser for the whiteboard should also be in the camera view. An eraser can include objects such as a sock, make-up remover pad, washcloth, Magic Eraser, or an eraser encased in hard plastic that is often sold with dry-erase markers. The eraser should be plain and not have any lettering, graphics, or logos. For policy guidance on secure testing environments and permitted/not permitted testing tools for WGU online-proctored assessments, please refer to WGU Assessment Policies or reach out to Assessment Services.

Primary Course Material

Access the learning resources listed in this section by clicking on the links provided throughout the course. You may be prompted to log in to the WGU student portal to access the resources.

Content will be drawn from the following text:

Andress, J. (2019). *Foundations of information security : A straightforward introduction*. ISBN: 9781718500044

Andress, J. (2014). *The basics of information security: Understanding the fundamentals of InfoSec in theory and practice*. ISBN 9780128008126

Additional Resources

Video & Audio Content:

Below is the audio and video content created by the CIs for the course.

Welcome Video

Lesson	Web Link

Video Link Lesson 1	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=54bd2f43-48b4-4c69-912a-aac3001f6eb9
Video Link Lesson 2	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=57e02dd9-b776-4b1d-a4c3-aacb00dba4a8
Video Link Lesson 3	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=5391055f-7390-45b4-9ecb-aad100d67791
Video Link Lesson 4	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=ef0d80e7-a0c1-448e-870c-aad800e2c92d
Video Link Lesson 5	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=f29a8473-2572-4c6a-a53c-aadf00f17ea4
Video Link Lesson 6	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=5b374957-807b-43d2-b797-aae600f90fae
Video Link Lesson 7	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=45e15019-ef2f-4378-af2c-aaed00f4f77b
Video Link Lesson 8	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=de0b1c14-5d77-4bd9-bca2-aaf400f26ecd
Video Link Lesson 9	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=d6b53642-406c-4170-be35-aafb012300a2
Video Link Lesson 10	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=3b561cda-4089-4144-90bd-ab0201018c9a
Video Link Lesson 11	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=042a0dc8-9471-4f39-82e6-ab0a01008f53
Video Link Lesson 13	https://wgu.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=289d1ea4-84ce-43dc-8efc-ab18012fb7db

Exam Attempts

Attempt 1: To unlock your exam for scheduling for the 1st attempt at the exam, you must attempt the course preassessment. Upon completion of the preassessment, the "Schedule Now" button will appear in the assessments section of your main course page. You have control to essentially approve your 1st attempt.

Attempts 2-4: For 2nd and subsequent attempts, your assigned Course Instructor will be the individual that approves your retake(s) following your completion of a tailored retake study plan and conditions for approval outlined by the Course Instructor. Any additional attempt after attempt the 2nd will require additional meetings with the CI team.

Attempts 3-4: Additionally, for 3rd and subsequent attempts, you be charged an out-of-pocket fee of $60 to retake your exam. Minimum wait time before attempt 3 and before attempt 4 is five days.

Note - You are allotted only 4 attempts at the exam. Review the Assessment Policies section of your Student Handbook for additional information. **WGU Student Handbook-Assessment-Policies**

Exam Prep Best Practices

Course Guidelines:

- Please join the Thursday 8:00pm cohorts @ the WGU course of study page.
-take the preassessment until constantly passing
-review lessons 1-14 readings (pay close attention to chapters 1 – 6 and 9.)
-complete lessons 1-14 quizzes.
-complete lessons 1-14 exercises (pay close attention to chapters 1 – 6 and 9)
-watch the videos that are posted under "Course Tips" (course main page navigation)
-go over the PowerPoints that are posted in the course tips
-once you have submitted an OA attempt, please email your CI.

This tables is a list of tools that often come up:

Tool	Description	Textbook reference
Kismet/Netstumbler	AP access point detection	10.6
NMAP	Port scanner	10.6
WireShark	packet sniffer and protocol analyzer	10.6
TCPDump	command line sniffer for Unix/Linux OS	10.6
Honeypots	vulnerable system to attract attackers	10.6
Hping3	locate vulnerabilities in our firewalls	10.7
Intel Executable Disable (XD)	for buffer overflow protection at the chipset level	11.5
AMD enhanced Virus protection	for buffer overflow protection at the chipset level	11.5
address space layout randomization (ASLR)	for buffer overflow protection at the operating system level (windows, MAC, Linux)	11.5

	Vulnerability assessment tool made by Tenable	11.8	
Nessus	Vulnerability assessment tool made by Tenable	11.8	
Metasploit	Vulnerability assessment tool made by Rapid 7	11.8	
CANVAS	Vulnerability assessment tool made by Immunity	11.8	
Nikto and Wikto	web server analysis tool/Vulnerability scanner	12.10	
Burp Suite	web analysis tool/Web assessment tool	12.10	
Fuzzers (MiniFuzz, Binscope, Regex Fuzzer)	Vulnerability analysis and to find completely unexpected problems	12.11	

This table is a list of laws and regulations which is commonly asked about:

LAW/REGULATION	Description	Textbook reference
FISMA	Federal Information Security Management Act	Ch. 6
HIPAA	Health Insurance Portability and Accountability Act	Ch. 6
FERPA	Family Educational Rights and Privacy Act (FERPA)	Ch. 6
SOX	The Sarbanes-Oxley Act	Ch. 6
GLBA	The Gramm-Leach-Bliley Act	Ch. 6

Pacing Guide

Course Sections and Pacing:

Course Section	Lessons
Week 1 Section 1: Welcome to the Course	Getting Started
Week 1 Section 2: Key concepts, Identification, and Authorization	Lesson 1: What is Information Security? Lesson 2: Identification and Authentication Lesson 3: Authorization and Access Control
Week 2 Section 3: Auditing, Cryptography, and Legal Issues	Lesson 4: Auditing and Accountability Lesson 5: Cryptography Lesson 6: Laws and Regulations
Week 2 Section 4: Operations and Human Element Security	Lesson 7: Operations Security Lesson 8: Human Element Security Review Chapters 1 - 3
Week 3 Section 5: Physical and Network Security	Lesson 9: Physical Security Lesson 10: Network Security Review Chapters 4 - 6
Week 3 Section 6: Operating System and Application Security	Lesson 11: Operating System Security Lesson 12: Application Security Review Chapters 7 - 10
Week 4 Section 7: Further Study	Lesson 13: Mobile, Embedded, and IOT Security Lesson 14: Assessing Security Review Chapters 11 - 14 Review Chapters 1-6 second time Pre-assessment to gauge competency – study areas needing additional study time if needed Objective assessment