

**Transportation Cyber Security
Program Syllabus
April – May, 2021**

On-line Course

Lessons

Thursday, April 8 – Friday, April 23, 2021

Review Lessons 1, 2, and 3 of the course materials in Moodle.

Lesson 1. Why Do Hackers Hack?

Lesson 2. Field Devices

Lesson 3. Center-To-Field Network Security

Friday, April 23 – Thursday, May 6, 2021

Review Lessons 4 and 5 of the course materials in Moodle.

Lesson 4. Back Office/Traffic Management Center

Lesson 5. The Weakest Link—Users, Operators, and Managers

Lessons Final Exam

Thursday, May 6 – Monday, May 10, 2021

The final exam will be available through Moodle beginning at 12:00 PM (ET) on Thursday, May 6 through 11:55 PM (ET), Monday, May 10, 2021. Students will complete the final exam on Moodle.

Webinars with Murali Rao and Micah Dalton

1 - Wednesday, April 14, 2021, 1:30 – 2:30 PM (ET)

Presentation

The instructor will present an overview of ideas and concepts to get the ball rolling and open the gates to a professional conversation. What does defense-in-depth mean? What does it mean from a strategy, architecture, implementation, or monitoring viewpoint? What does it mean in an enterprise solution approach?

2 - Wednesday, April 28, 2021, 1:30 – 2:30 PM (ET)

Deliberation

Now that you've heard some ideas, how do they apply to your situation? What have you tried? What works? What doesn't work? How could things be improved? What could be challenged? How could an approach be modified?

3 - Wednesday, May 19, 2021, 1:30 – 2:30 PM (ET)

Action

The topic of conversation for this final webinar is about action. How are you going to take back what you learned to your organization and improve cybersecurity in your individual responsibilities, in your work unit, in your organization? How can you work to bolster your processes, practices, and environment?

Workshops

For each workshop, post your answer in the Workshop Forum section in Moodle. Also, review the other student submittals and provide comments to at least three of them. **NOTE:** It is very important to post on time so everyone has time to review all postings before the deadline for the required responses.

Workshop 1

Answer Submittal Deadline: **Saturday, April 24, 2021** - no later than 11:55 PM (ET)

Comment Submittal Deadline: **Tuesday, April 27, 2021** - no later than 11:55 pm (ET)

Workshop 2

Answer Submittal Deadline: **Saturday, May 15, 2021** - no later than 11:55 PM (ET)

Comment Submittal Deadline: **Tuesday, May 18, 2021** - no later than 11:55 pm (ET)

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Post Course Survey

IMPORTANT NOTE: The Post Course Survey is a required part of this program. To receive Continuing Education Units (CEUs), you must complete the Post-Course Survey online through Moodle.

Course Grades

Grades for the course will be determined by student participation in the following items and will be weighted as shown below. Students need to receive a 70% or better to pass the course and receive Continuing Education Units (CEUs).

Online course final exam	20%
Webinar 1 participation	15%
Webinar 2 participation	15%
Webinar 3 participation	15%
Workshop 1	10%
Workshop 2	20%
Completed Post-Course Survey	5%
	100%