



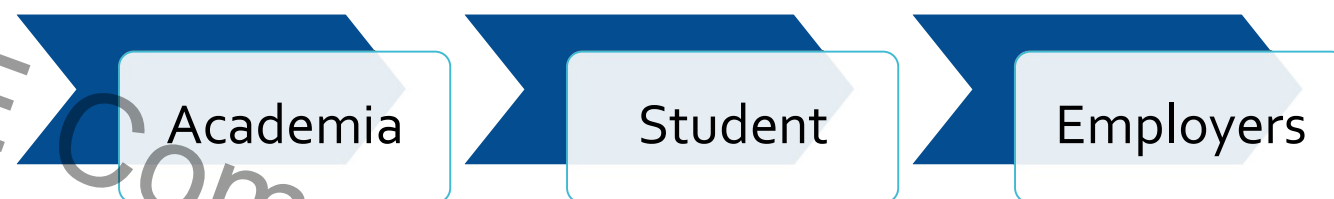
2025 CAE Community Symposium

Digital Badging Celebrating Student Competencies

Chip Thornsburg

Northeast Lakeview College

Bridging the gap between Academia and Employers



- | | | |
|---|---|--|
| <ul style="list-style-type: none"> • Project-based Learning • Work Role Tasks • NICE & DCWF • Common Framework • Common Language | <ul style="list-style-type: none"> • Develops Skills • Work Role Tasks • NICE & DCWF • Confidence • Competence • Resume • Interviews | <ul style="list-style-type: none"> • Common Language • Work Role Tasks • NICE & DCWF • Verify Competence • Interviews |
|---|---|--|

Students struggle to communicate achievements to employers.

Digital Badging | Chip Thornsburg

"Competency is the ability for the individual to complete a task or tasks within the context of a work role."

A | B | C | D | E
Method

Canvas Credentials

- Skill-Aligned
- Micro-Credentials
- Stackable
- Learning Pathway
- Portable Academic Record
- Open-Source

Digital Badges

Automated Process for Awards

- Integrated in CANVAS LMS
- Linked to a Project & Scoring Rubric

Automatically Posts Badge Awards to Social Media

- LinkedIn
- Award Details hosted on College's Website



badgr

Canvas Assignment Example



ITSY-2442-006 > Assignments > Incident Response Report

Spring 2025

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Incident Response Report

Start Assignment

Due Mar 2 by 11:59pm Points 100 Submitting a file upload
Available Feb 17 at 12am - Mar 23 at 11:59pm

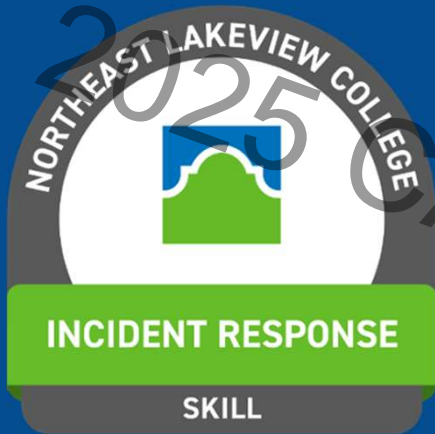
The work role of a Cyber Defense Incident Responder requires you to conduct incident investigations of reported events. In this scenario of a reported harassing email, you are provided with a network map, incident reports, and a network traffic capture file for analysis. You must analyze the network traffic using Wireshark or another protocol analyzer to correctly identify the actor(s) involved, any computer devices used, and create a detailed Incident Response Report based on findings. You must use the template provided in this module:

[Nitroba slides.pdf](#) ↓

[nitroba.pcap](#) ↓

See the attached Rubric for grading details.

Students who score 80 or higher will be awarded the **NLC Incident Responder Digital Skills Badge.



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Canvas Integration

ITSY-2442-006 > Badges

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Group setup

Manage badges, pathways and settings

Badges Pathways Learners Staff Issuers Details

Badges



Manage the badge requirements in this group

☒ Prevent duplicate badge awards

All badges Canvas course badges

Search Badges

1 - 1 of 1

Sort	Name	Requirement	Evidence
	 Incident Response	 Incident Response Report: 80% score	



Incident Response

Incident response and investigation are core competencies of Cyber Defense aimed at promptly identifying and mitigating security incidents. By responding rapidly to incidents, organizations detect and contain threats within their network, prevent the escalation of security incidents, and curb the spread of malware or unauthorized access. By earning this badge, students will gain valuable skills in these areas, enhancing their cybersecurity knowledge and career prospects. To earn this badge, students must successfully complete a security incident response project by analyzing data points within a network traffic capture file to investigate and report detailed findings of an incident within a campus area network setting. For more information about the competencies, visit the National Initiative for Cybersecurity Careers and Studies Cyber Career Pathways Tool. [\[less\]](#)

Created on: Apr 12, 2024

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Badge Details

EARNING CRITERIA

Recipients must complete the earning criteria to earn this badge

Earning Criteria

- Demonstrate proficiency of 80% or higher on a skills assessment for each sub-competency
- Have skills formally assessed by a credentialed Alamo Colleges Badge Coach and/or Badge Specialist

Competencies

- S0047 - Skill in preserving evidence integrity according to standard operating procedures or national standards.
- S0156 – Skill in performing packet-level analysis.
- S0173 - Skill in using security event correlation tools.

Tasks

- T0027 – Conduct analysis of evidence files and other information to determine the best methods for identifying the perpetrator(s) of an incident.
- T0233 - Track and document cyber defense incidents from initial detection through final resolution.


This badge demonstrates the ability to conduct an Incident Response to an employee’s reported email harassment. Critical thinking, technical writing, investigative methods, and network traffic analysis using a protocol analyzer are required. This task is required for the Incident Responder and Forensic Analyst roles in the cybersecurity field.

[View External Criteria](#) 

ALIGNMENTS

This badge is aligned to these frameworks

[National Initiative for Cybersecurity Careers and Studies Cyber Career Pathways Tool](#)





Cybersecurity Architecture

Cybersecurity Architecture is an essential skill for Cyber Defense. To earn this badge, Students are required to successfully design an office network based on business requirements and in-depth defense principles. They translate business needs into real-world cyber-physical networks. They ensure that security requirements are adequately addressed in all aspects of enterprise architecture, including reference models, and that the resulting systems protect and support organizational mission and business processes. For more information about the competencies, visit the National Initiative for Cybersecurity Careers and Studies Cyber Career Pathways Tool. [\[less\]](#)

Created on: Dec 12, 2024



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Badge Details

EARNING CRITERIA

Recipients must complete the earning criteria to earn this badge

Earning Criteria

- Demonstrate proficiency of 80% or higher on a skills assessment for each sub-competency
- Have skills formally assessed by a credentialed Alamo Colleges Badge Coach and/or Badge Specialist

Competencies

- S0418 - Skill in applying secure network architectures.
- S0428 - Skill in designing architectures.
- S0762 - Skill in integrating organization objectives.
- S0590 - Skill in building use cases.

Tasks

- T1027 Integrate organizational goals and objectives into security architecture
- T1153 Integrate cybersecurity designs for systems and networks
- T1556 Identify system and network protection needs
- T1507 Determine user requirements

This badge demonstrates the ability to translate business needs into real-world cyber-physical networks including creating a network map and an inventory list of components including installation and set-up costs. These tasks are required for the work role of Cybersecurity Architect.



Network Traffic Analysis

Incident response and investigation are core competencies of Cyber Defense. Network traffic analysis is aimed at promptly identifying and mitigating security incidents. By responding rapidly to incidents, organizations detect and contain threats within their network, prevent the escalation of... [\[more\]](#)

Created on: May 24, 2024



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Badge Details

EARNING CRITERIA

Recipients must complete the earning criteria to earn this badge

Earning Criteria

- Demonstrate proficiency of 80% or higher on a skills assessment for each sub-competency
- Have skills formally assessed by a credentialed Alamo Colleges Badge Coach and/or Badge Specialist

Competencies

- S0025 - Skill in detecting host and network-based intrusions.
- S0078 - Skill in recognizing and categorizing types of vulnerabilities and associated attacks.
- S0080 - Skill in performing damage assessments.
- S0156 - Skill in performing packet-level analysis.

Tasks

- T0027 - Conduct analysis of evidence files and other information to determine the best methods for identifying the perpetrator(s) of an incident.
- T0047 - Correlate incident data to identify specific vulnerabilities and make recommendations that enable expeditious remediation.

This badge demonstrates the ability to analyze a network traffic capture (PCAP) file to determine the source and extent of a computer network breach. Critical thinking, technical writing, investigative methods, and network traffic analysis using a protocol analyzer are required. This task is required for the Incident Responder and Forensic Analyst roles in the cybersecurity field.

[View External Criteria](#)



Questions?

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