

(V07) Cybersecurity/Digital Forensics (ML | S | PS)

Description

Demonstrate knowledge of computer security and cybersecurity management tasks in multiple computer and mobile platforms. This national event will be graded and require judged components on-site at the National Leadership Conference. Awards will be presented at the National Leadership Conference.

Eligibility

- Any Business Professionals of America student member may enter this event.
- There are no restrictions on number of entries per chapter or per state.

Contest Overview

Round One: All registered competitors will complete a fifty (50) question objective test virtually. The top twenty (20) competitors will be invited to participate in Round Two.

Round Two: The top twenty (20) competitors from Round One will be invited to create a presentation (no longer than ten (10) minutes) on the following topic:

Topic (Round Two Competitors Only)

You have been asked to develop a presentation on recent Ransomware attacks. Suggested topics to cover are, but are not limited to:

- How were they attacked?
- Corporate responsibility during/after an attack
- Comparison different types of Ransom attacks
- Preventative measures for attacks
- Impact on individual lives and/or groups of people
- Security improvements made due to these attacks

Event Registration

- Advisors register members for the event using the Membership Registration System, accessible at <https://register.bpa.org>.
- The event can be added to your invoice using step 4, “Virtual Event Registration.” Enter the name of each student into the “notes” field.
- Event registration can be purchased with your original invoice or with a new invoice after member registration.
- Registration deadline is no later than 11:59 p.m. Eastern Time, on November 15, 2021.
- Members participating in competition must be registered for the event prior to submission deadline to be eligible.

Entry Fee

There will be a \$10 fee for each entry (*invoiced during event registration*).

Competencies

- Demonstrate knowledge of security threats
- Understand infrastructure security
- Demonstrate knowledge of cryptography, access control and authentication
- Demonstrate security tactics to prevent against external attack
- Demonstrate knowledge of operational and organization security
- Identify security threats
- Demonstrate hardening internal Windows and Linux systems and services
- Demonstrate knowledge of TCP/IP

Business Professionals of America Workplace Skills Assessment Program

Material contained in this publication may be reproduced for member and/or event use only.

- Demonstrate hardening Internet work devices and services
- Demonstrate knowledge of network defense fundamentals
- Demonstrate knowledge of wireless technologies (ie. WAN, PAN, and/or WPAN)
- Create security policies
- Perform a risk analysis
- Demonstrate knowledge of biometrics
- Demonstrate knowledge of cryptography
- Create router and access control lists
- Demonstrate knowledge of internet security issues
- Manage certificates
- Monitor security infrastructure

Information Technology Common Standards

- Utilize digital tools to gather, evaluate, and use information
- Demonstrate a sound understanding of technology concepts, systems, and operations
- Explain how IT increases business productivity and effectiveness
- Demonstrate an understanding of project management concepts in IT
- Explain the key functions and applications of software
- Demonstrate an understanding of how new IT technologies influence business practices
- Demonstrate technical knowledge of the Internet
- Demonstrate knowledge of basic web page design and functioning

Specifications

- Compete in the objective portion of the event at proctored testing site determined by National BPA.
- The member shall design a computer-generated multimedia presentation on the assigned topic.
- The member is to make effective use of current multimedia technology in the presentation (e.g., sound, movement, digital video, etc.).
- The length of set-up will be no more than three (3) minutes.
- The length of the presentation will be no less than seven (7) minutes and no more than ten (10) minutes, followed by no more than five (5) minutes of judges' questions.
- All text/graphic materials must follow the organization's [Graphic Standards](#) and make proper use of the logo and/or organization's name. (Refer to the [Graphic Standards](#) in the [Style & Reference Manual](#).)
- Members will be assigned to sections prior to their preliminary presentation.
- For members who qualify, members' advisors will be contacted to reserve a time for a videoconference presentation before a panel of judges. E-mail confirmation will be sent to those members eligible to reserve a presentation time. The dates and times for presentation reservations will be announced via e-mail notification.
- The top members with the highest cumulative objective exam and presentation scores will be invited to attend the National Leadership Conference to be recognized for their outstanding efforts and to participate in a hands-on portion at the National Leadership Conference.
- It is the policy of Business Professionals of America to comply with state and federal copyright law. Federal law pertaining to copyright, as contained within the United States Code, is available at <https://www.copyright.gov/title17/title17.pdf>. The [Style & Reference Manual](#) contains guidelines for Copyright and Fair Use. Participant(s) will be *disqualified* for violations of the guidelines.
- National Business Professionals of America grants permission for the use of the copyrighted logo and tagline.

Method of evaluation

Objective

Presentation Judges' Rating Sheet

Application: Top 10 members at national level only. Reference materials are allowed for the application portion.

Certification test taken per conference schedule at NLC.

At the national level, scores from the preliminary round and objective test do not advance with member to finals. Final contest score is based solely on hands-on component.

Length of event

Objective - No more than sixty (60) minutes for objective test

Presentation - No more than three (3) minutes set-up

Presentation - No more than ten (10) minutes presentation time

Presentation - No more than five (5) minutes judges' questions

Finals - No more than sixty (60) minutes for hands-on tasks

This event is sponsored by:

The logo for EC-Council, featuring the text "EC-Council" in a bold, red, sans-serif font.The logo for CERTIPORT, featuring the text "CERTIPORT" in a blue, sans-serif font with a yellow crown-like symbol above the letter "I". Below the text is a horizontal line, and underneath that line, the text "A PEARSON VUE BUSINESS" is written in a smaller, black, sans-serif font.

(V07) Cybersecurity/Digital Forensics (ML | S | PS)

Judge Number _____

Member ID _____

Presentation Scoring Rubric

Member Violated the Copyright and/or Fair Use Guidelines	<input type="checkbox"/> Yes <i>(Disqualification)</i>	<input type="checkbox"/> No
If yes, please stop scoring and provide a brief reason for the <i>disqualification</i> below:		
Member followed topic	<input type="checkbox"/> Yes	<input type="checkbox"/> No <i>(Disqualification)</i>

Items to Evaluate	Below Average	Average	Good	Excellent	Points Awarded
Opening and summary	1-5	6-10	11-15	16-20	
Objectives to be achieved are stated	1-5	6-10	11-15	16-20	
Ability to use technical terms, along with appropriate explanations that achieve effective communication	1-5	6-10	11-15	16-20	
General content	1-5	6-10	11-15	16-20	
Typography (typeface, size, & color)	1-3	4-6	7-9	10-12	
Functional graphics contribute to the progression of the idea	1-3	4-6	7-9	10-12	
Charts and graphs used effectively	1-5	6-10	11-15	16-20	
Voice quality and diction	1-5	6-10	11-15	16-20	
Self-confidence, assertiveness, and eye contact	1-5	6-10	11-15	16-20	
Development of stated theme	1-10	11-20	21-30	31-40	
Answers to judges' questions	1-10	11-20	21-30	31-40	
TOTAL PRESENTATION POINTS (244 points maximum)					

Props and/or additional items shall not be used as a basis for scoring.

(V07) Cybersecurity/Digital Forensics (ML | S | PS)

Judge Number _____

Member ID _____

Specification Scoring Rubric

SPECIFICATION POINTS: All points or none per item are awarded by the proctor per member, <i>not</i> per judge.		Points Awarded
Set-up lasted no more than three (3) minutes – 5 points	10	
Presentation was no less than seven (7) minutes and lasted no more than ten (10) minutes – 5 points		
TOTAL SPECIFICATION POINTS (10 points maximum)		

TOTAL MAXIMUM POINTS = 254

PRESENTATION WILL BE STOPPED AT TEN (10) MINUTES