

Cybersecurity, Virtualization, and Networking

Mission

To provide students with the technical and organizational skills needed to design, configure, and build computer networks and develop and create cybersecurity infrastructure for business and industry.

2025-2026

Cybersecurity, Virtualization, and Networking Learning Outcomes

Cybersecurity

The learner will illustrate their ability to manage cybersecurity threats.

MEASURES	RESULTS	ACTIONS
<p>Final Exam - Written (On-Campus)</p> <p>Comprehensive exam on security fundamentals. Direct - Exam (Course) <i>Security Fundamentals: CVNP 2615</i></p> <p>Target</p> <p>70% of students will score a 70% or better.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam - Written (Online)</p> <p>Comprehensive exam on security fundamentals. Direct - Exam (Course) <i>Security Fundamentals: CVNP 2615</i></p> <p>Target</p> <p>70% of students will score a 70% or better.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Network Management

The learner will demonstrate the ability to effectively manage network systems.

MEASURES	RESULTS	ACTIONS
<p>Final Exam Cisco 1 - Written (On Campus)</p> <p>Comprehensive exam on networking fundamentals. Direct - Exam (Course) <i>Cisco 1: CVNP 1603</i></p> <p>Target</p> <p>70% of students will score a 70% or better on the Final Exam for Cisco 1.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

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<p>Final Exam Cisco 1 - Written (Online)</p> <p>Comprehensive exam on networking fundamentals. Direct - Exam (Course) <i>Cisco 1: CVNP 1603</i></p> <p>Target</p> <p>70% of students will score a 70% or better.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam Cisco 2 - Written (On Campus)</p> <p>Comprehensive exam for Cisco 2. Direct - Exam (Course) <i>Cisco 2: CVNP 1612</i></p> <p>Target</p> <p>70% of students will score a 70% or better on the Final Exam for Cisco 2.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam Cisco 2 - Written (Online)</p> <p>Comprehensive exam for Cisco 2. Direct - Exam (Course) <i>Cisco 2: CVNP 1612</i></p> <p>Target</p> <p>70% of students will score a 70% or better on the Final Exam for Cisco 2.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam Cisco 3 - Written (On Campus)</p> <p>Comprehensive exam for Cisco 3. Direct - Exam (Course) <i>Cisco 3: CVNP 2606</i></p> <p>Target</p> <p>70% of students will score a 70% or better on the Final Exam for Cisco 3.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam Cisco 3 - Written (Online)</p> <p>Comprehensive exam for Cisco 3. Direct - Exam (Course) <i>Cisco 3: CVNP 2606</i></p> <p>Target</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

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70% of students will score a 70% or better on the Final Exam for Cisco 3.		
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Hardware

The learner will demonstrate proficiency in maintaining computer hardware to ensure optimal performance.

MEASURES	RESULTS	ACTIONS
<p>Final Exam - Written (On Campus)</p> <p>Comprehensive exam on hardware. Direct - Exam (Course) <i>Computer Hardware: CVNP 2626</i> Target 70% of students will score a 70% or better.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam - Written (Online)</p> <p>Comprehensive exam on hardware. Direct - Exam (Course) <i>Computer Hardware: CVNP 2626</i> Target 70% of students will score 70% or better.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Information Technology (IT)

The learner will demonstrate proficiency in the management of IT infrastructure.

MEASURES	RESULTS	ACTIONS
<p>Final Exam SWOS - Written (On Campus)</p> <p>Comprehensive exam on operating systems. Direct - Exam (Course) <i>Supporting Windows Operating Systems: CVNP 1606</i> Target 70% of students will score a 70% or better.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam SWOS - Written (Online)</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

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<p>Comprehensive exam on operating systems. Direct - Exam (Course) <i>Supporting Windows Operating Systems: CVNP 1606</i> Target 70% of students will score a 70% or better.</p>		
<p>Final Exam ANOS - Written (On Campus) Comprehensive exam for Advanced Network Operating Systems. Direct - Exam (Course) <i>Advanced Network Operating System: CVNP 2603</i> Target 70% of students will score a 70% or better on the Final Exam for Advanced Network Operating Systems.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam ANOS - Written (Online) Comprehensive exam for Advanced Network Operating Systems. Direct - Exam (Course) <i>Advanced Network Operating System: CVNP 2603</i> Target 70% of students will score a 70% or better on the Final Exam for Advanced Network Operating Systems.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

Virtualization

The learner will apply knowledge of virtualized environments to ensure effective functionality.

MEASURES	RESULTS	ACTIONS
<p>Final Exam - Written (On Campus) Comprehensive exam on virtual computing. Direct - Exam (Course) <i>Virtual Computing: CVNP 2601</i> Target 70% of students will score 70% or better.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

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<p>Final Exam - Written (Online)</p> <p>Comprehensive exam on virtual computing. Direct - Exam (Course) <i>Virtual Computing: CVNP 2601</i></p> <p>Target</p> <p>70% of students will score a 70% or better.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
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Risk Management

The learner will apply security measures while complying with relevant laws/regulations.

MEASURES	RESULTS	ACTIONS
<p>Final Exam Defensive Security - Written (On Campus)</p> <p>Comprehensive exam on defensive security. Direct - Exam (Course) <i>Defensive Security: CVNP 2625</i></p> <p>Target</p> <p>70% of students will score 70% or better on the Final Exam for Defensive Security.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam Defensive Security - Written (Online)</p> <p>Comprehensive exam on defensive security. Direct - Exam (Course) <i>Defensive Security: CVNP 2625</i></p> <p>Target</p> <p>70% of students will score a 70% or better on the Final Exam for Defensive Security.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

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<p>Final Exam Offensive Security - Written (Online)</p> <p>Comprehensive exam for Offensive Security. Direct - Exam (Course)</p> <p><i>Offensive Security: CVNP 2645</i></p> <p>Target</p> <p>70% of students will score a 70% or better on the Final Exam in Offensive Security.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
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Troubleshooting

The learner will establish processes for resolving IT system issues.

MEASURES	RESULTS	ACTIONS
<p>Final Exam - Written (On Campus)</p> <p>Comprehensive exam on advanced networking operating systems. Direct - Exam (Course)</p> <p><i>Advanced Network Operating System: CVNP 2603</i></p> <p>Target</p> <p>70% of students will score 70% or better.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam Linux Administration - Written (On Campus)</p> <p>Comprehensive exam for Linux Administration. Direct - Exam (Course)</p> <p><i>Linux Administration: CVNP 1601</i></p> <p>Target</p> <p>70% of students will score a 70% or better on the Final Exam in Linux Administration.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam Linux Administration - Written (Online)</p> <p>Comprehensive exam for Linux Administration. Direct - Exam (Course)</p> <p><i>Linux Administration: CVNP 1601</i></p> <p>Target</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>

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70% of students will score a 70% or better on the Final Exam in Linux Administration.		
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Workplace Readiness

The learner will demonstrate effective behaviors as an IT professional.

MEASURES	RESULTS	ACTIONS
<p>Capstone Capture the Flag Skills Assessment</p> <p>Student skills competition on Cisco 3 topics. Indirect - Other <i>Cisco 3: CVNP 2606</i> Target</p> <p>70% of students will get 7/10 questions correct.</p>	<i>No results have been added.</i>	<i>No actions have been added.</i>
<p>Capstone Capture the Flag Skills Assessment</p> <p>Student skills competition on ANOS topics. Direct - Assignment <i>Advanced Network Operating System: CVNP 2603</i> Target</p> <p>70% of students will get 7/10 questions correct.</p>	<i>No results have been added.</i>	<i>No actions have been added.</i>
<p>Capstone Capture the Flag Skills Assessment</p> <p>Students skills competition on Defensive Security Topics. Direct - Assignment <i>Defensive Security: CVNP 2625</i> Target</p> <p>70% of students will get 7/10 questions correct.</p>	<i>No results have been added.</i>	<i>No actions have been added.</i>
<p>Capstone Capture the Flag Skills Assessment</p>	<i>No results have been added.</i>	<i>No actions have been added.</i>

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<p>Student skills competition on Python/JSON topics.</p> <p>Direct - Assignment</p> <p><i>Python/JSON: CVNP 2646</i></p> <p>Target</p> <p>70% of students will get 7/10 questions correct.</p>		
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Cloud Computing

The learner will manage cloud computing solutions to ensure proper functionality.

MEASURES	RESULTS	ACTIONS
<p>Final Exam Virtual Computing - Written (On Campus)</p> <p>Comprehensive exam for Virtual Computing.</p> <p>Direct - Exam (Course)</p> <p><i>Virtual Computing: CVNP 2601</i></p> <p>Target</p> <p>70% of students will score a 70% or better on the Final Exam in Virtual Computing.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>
<p>Final Exam Virtual Computing - Written (Online)</p> <p>Comprehensive exam for Virtual Computing.</p> <p>Direct - Exam (Course)</p> <p><i>Virtual Computing: CVNP 2601</i></p> <p>Target</p> <p>70% of students will score a 70% or better on the Final Exam in Virtual Computing.</p>	<p><i>No results have been added.</i></p>	<p><i>No actions have been added.</i></p>