

CAREER PATHWAYS

DevOps Pathway

Core Courses

CompTIA Security+ |
72 hours

Certified Ethical Hacker (CEH) |
72 hours

Splunk Core User | 72 hours

**Total DevOps Pathway
Clock Hours | 216**

Contact Us

(571) 577-7890

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Program Prerequisites

High School Diploma and basic computer knowledge



Program Goal

This program provides an introduction to DevOps – the cultural and professional movement that stresses communication, collaboration, integration, and automation in order to improve the flow of work between software developers and IT operations professionals. Improved workflows will result in an improved ability to design, develop, deploy and operate software and services faster for the benefit of the business. Students will learn the latest automation tools to examine the functionality for source code control, automated build, automated test, and automated deployment, to deliver an operational rhythm of Continuous Integration (CI) and Continuous Deployment (CD). This program discusses the basic concepts of DevOps, including its philosophy, workflow, monitoring methods, and tools. Topics include: concepts and vision for DevOps, release/deployment pipelines, automated testing, monitoring production, task evaluation, skills assessment, and tool selection. Students will apply these concepts to see how they can be best implemented to automate development, test and release practices. Students will work in teams to build functional working models of realized DevOps.



Educational Objectives

This program is designed to provide the necessary education and hands-on expertise needed to build the DevOps vocabulary and to understand its principles and practices. During the course of the program, students will be able to:

- Gain an in depth understanding of DevOps objectives and vocabulary.
- Identify valuable benefits to the business and IT lifecycle.
- Formulate principles for continuous integration, continuous delivery, testing, security and The Three Ways
- Improve workflows, communication and feedback loops by following best practices.
- Automate tasks by using deployment pipelines and DevOps toolchains.
- Assess requirements and construct scaling of DevOps for the enterprise.
- Illustrate critical success factors and key performance indicators.

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Learning Outcomes

Upon completion of the DevOps Program, graduates will be able to:

- Harness the relationship of DevOps to Agile, Lean and ITSM.
- Compose test strategy and implementation within a CI/CD context.
- Perform infrastructure automation with tools such as Jenkins, Selenium, AWS and Splunk.
- Automate quality gates for incremental build and delivery of the product.
- Execute functions and implement frequent Python code commits to repositories.
- Structure code with classes, functions, modules and OO features.
- Develop dynamic, platform-independent GUIs for data-driven web applications.

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Professional Objectives

- DevOps Engineer
- DevOps Architect
- DevOps Administrator
- DevOps Tools Administrator
- DevOps Consultant – Education
- Systems Administrator (DevOps)
- Cloud DevOps Engineer
- DevOps Automation Engineer
- Senior Security Operations Engineer



Core Courses

- ISA 1002 CompTIA Security+ | 72 hours
- ISA 1005 Certified Ethical Hacker (CEH) | 72 hours
- DEV 1003 Splunk Core User | 72 hours
- Total DevOps Career Pathway Clock Hours | 216

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