

# Post Graduate Program in DevOps

University Program

Course Outline



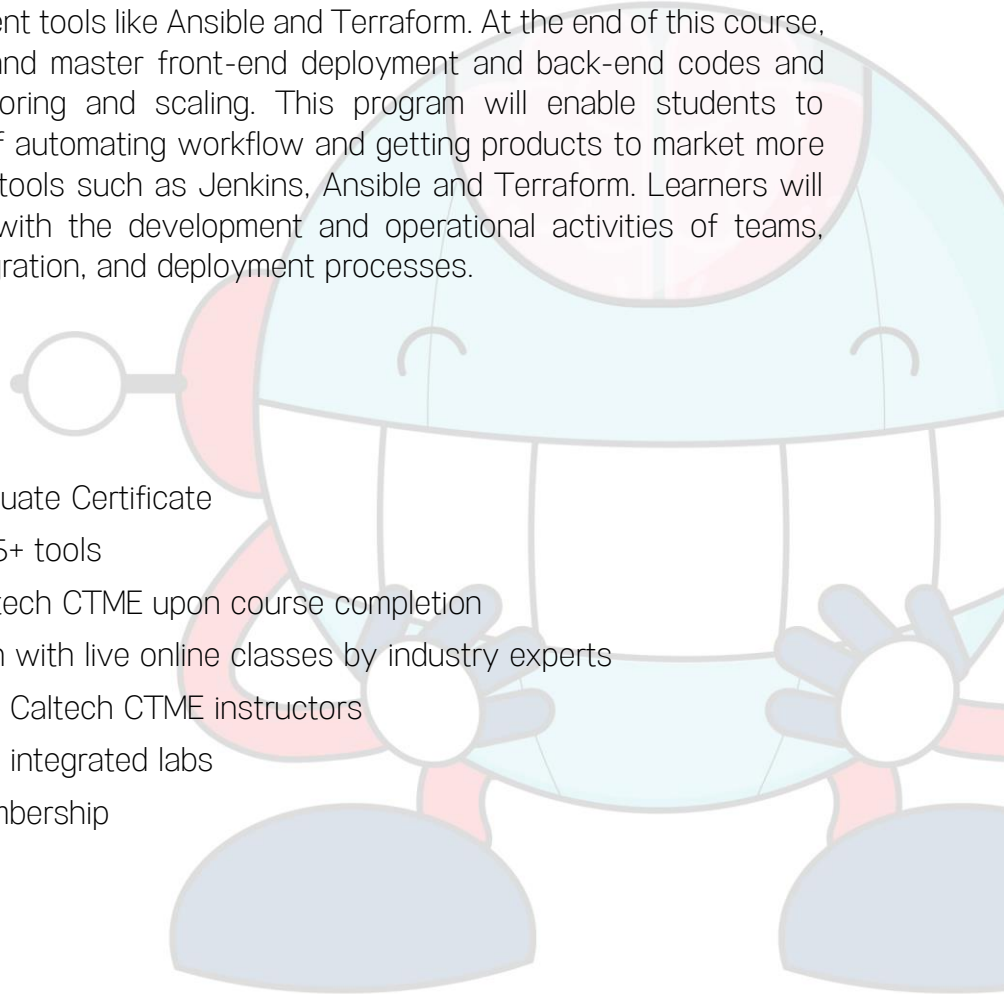


## Course Overview:

Accelerate your career with this acclaimed Post Graduate Program in DevOps, in collaboration with Caltech CTME. This program features the perfect mix of theory, case studies, and extensive hands-on practice to prepare you for a fast-growing field that bridges the gap between software developers and operations. This Post Graduate Program, designed for graduates in any discipline and experienced professionals from programming and non-programming backgrounds, offers a blend of self-paced videos, live virtual classes, hands-on projects, and labs. Students also have access to mentorship sessions, providing a high engagement learning experience and real world applications to help master essential DevOps skills. Students also will get hands-on experience in continuous deployment using current configuration management tools like Ansible and Terraform. At the end of this course, learners will be able to write and master front-end deployment and back-end codes and manage hosts for both monitoring and scaling. This program will enable students to demonstrate their knowledge of automating workflow and getting products to market more efficiently and effectively with tools such as Jenkins, Ansible and Terraform. Learners will also get practical experience with the development and operational activities of teams, continuous code releases, integration, and deployment processes.

## Key Features:

- Caltech CTME Post Graduate Certificate
- 40+ In-demand skills & 15+ tools
- Up to 25 CEUs from Caltech CTME upon course completion
- 8X higher live interaction with live online classes by industry experts
- Masterclasses taught by Caltech CTME instructors
- 20+ Real-life projects on integrated labs
- Caltech CTME circle membership





## About the Post Graduate Program in DevOps in Collaboration with Caltech CTME

Founded in 1891, Caltech is a world-renowned science and engineering institute that marshals some of the world's brightest minds and most innovative tools to address fundamental scientific questions and pressing societal challenges. Caltech prizes excellence and ambition. The contributions of Caltech's faculty and alumni have earned national and international recognition, including 38 Nobel Prizes and nearly 60 National Medals of Science. The institute manages the Jet Propulsion Laboratory (JPL) for NASA.

CTME is embedded in Caltech's Division of Engineering and Applied Science. Caltech CTME has a unique role to play in applying the capabilities of scientists and engineers to the challenges of today's technologydriven businesses. This program applies executive education and professional development directly to real-world problems. Our experts teach the tools and perspectives that elevate careers and help companies achieve their goals.

Upon completing this program, you will receive:

- Caltech CTME Post Graduate Certificate
- Caltech CTME Bonafide Certificate
- Individual course completion certificate for all the courses in learning path from Simplilearn
- Program performance report for the entire learning path in the program
- Up to 25 CEUs from Caltech CTME Caltech CTME Circle membership

## Program Eligibility Criteria and Application Process

Those wishing to enroll in the Post Graduate Program in DevOps in collaboration with Caltech CTME will be required to apply for admission.



## Eligibility Criteria

For admission to this Post Graduate Program in DevOps, candidates:

- Should have a bachelor's degree in any discipline with an average of 50% or higher marks
- With a non-programming background can also apply
- Having prior work experience is not mandatory

## Application Process

The application process consists of three simple steps. An offer of admission will be made to the selected candidates and accepted by the candidates by paying the admission fee.





## Talk to an Admissions Counselor

We have a team of dedicated admissions counselors who are here to help guide you in applying to the program. They are available to:

- Address questions related to the application
- Assist with financial aid (if required)
- Help you resolve your questions and understand the program

## Program Outcomes:

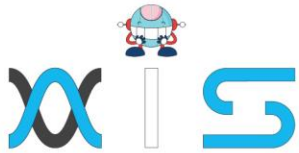
- Understand the fundamentals of DevOps engineering and be fully proficient with DevOps terminologies, concepts, benefits, and deployment options to meet your business requirements
- Deliver change requests from customers rapidly and effectively by adding new (and updating existing) features
- Obtain complete knowledge of version control systems to effectively track changes made with Git and Github training
- Develop a sound understanding of security and performance testing to safeguard releases from vulnerabilities
- Gain a detailed overview of continuous integration and container ecosystems by learning tools such as Jenkins and Docker

## Who should enroll in this program?

This program caters to those who are hoping to enter the world of DevOps or want to update their skills, as it is designed and structured to accommodate various professional backgrounds. Although there are no prerequisites for taking this training program, individuals in the following roles and disciplines are ideal for this course:

- Fresh graduates who intend to take the plunge into the DevOps job market
- Professionals with less than two years of experience who are working in either technical or non-technical job roles and wish to build successful careers in the DevOps world





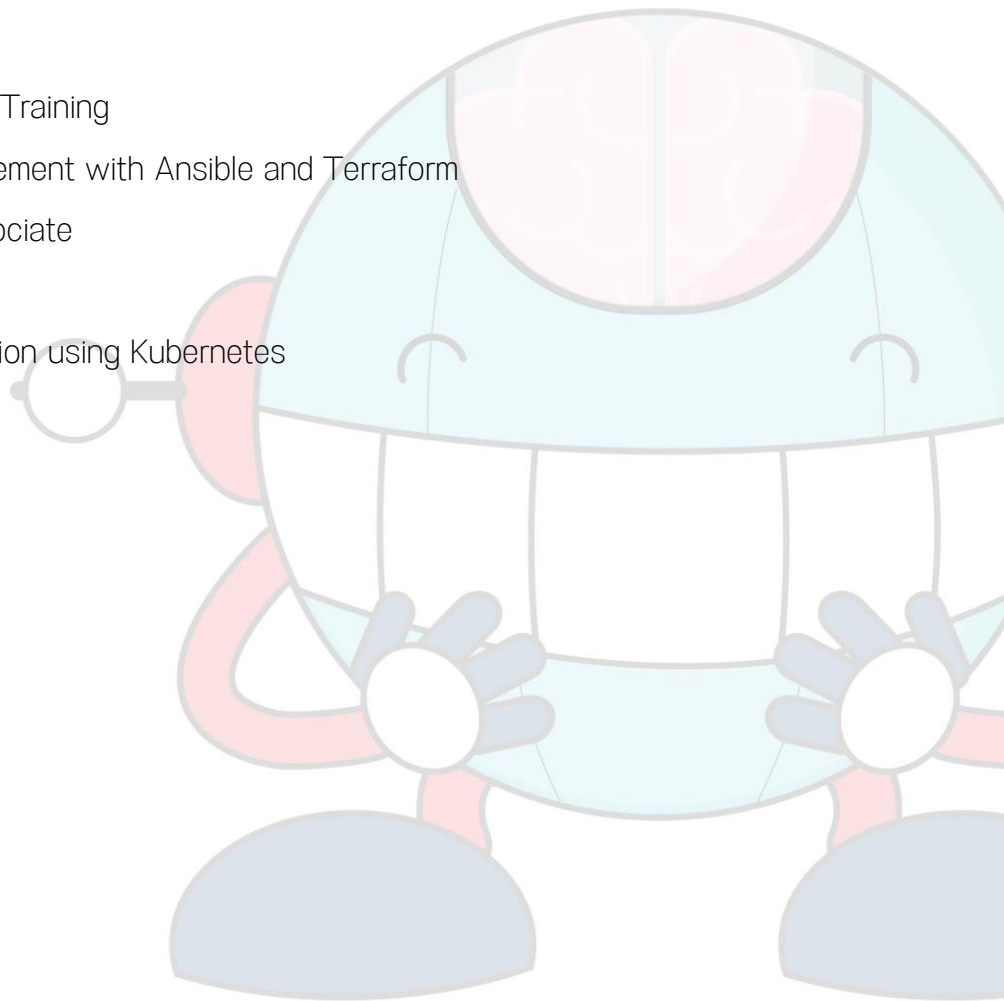
- People working in the following roles will benefit the most from the Post Graduate Program in DevOps:
  - IT team leaders
  - Software developers
  - Systems administrators and IT managers
  - Cloud engineers
  - Developers Engineers

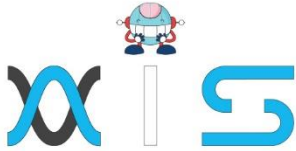
## Learning Path:

1. DevOps Certification Training
  2. Configuration Management with Ansible and Terraform
  3. Docker Certified Associate
  4. Capstone Project
  5. Container Orchestration using Kubernetes
- (☆) Master's Certificate

## Electives:

- Docker with IBM
- Kubernetes with IBM
- DevOps on AWS
- CI/CD with Jenkins
- Git and GitHub Training





## AIS

With the rising demand in scalable technology, AIS provides tailored goal-setting based on your organization's needs and expectations. With products geared towards the growing needs of your organization's customers and employees, AIS has innovative and value-driven solutions.

### Learning Partners



#### SAS Management, Inc.

SAS Management, Inc. has been a leader in the training, certification and consulting services industry in the Philippines. With offices in Makati, Ortigas and Cebu, Philippines, the company has been the top training and consulting company for over 9 years. In its years of existence, it has provided certificates to over 100,000 professionals including 10,000 participants in the 160+ courses that have been conducted just during the 2020-2021 pandemic alone. The most sought-after courses being offered are ITIL, Project Management Professional (PMP)®, COBIT 5, Six Sigma Yellow Belt, Six Sigma Green Belt, PRINCE2, and organizational skills, among others.



#### Simplilearn

Simplilearn, based in California and India, is the world's #1 online bootcamp and one of the world's the leading certification and training providers. Simplilearn trained over 2,000,000 professionals with 2,000+ trainers and provides over 400 different courses.

### Technology Partner



#### Freshworks

With over 40,000 customers, Freshworks is a business solutions software provider with products ranging from IT helpdesk and service desk, customer relationship management, live chat, marketing automation, phone system, and HR.

### Partners & Affiliates

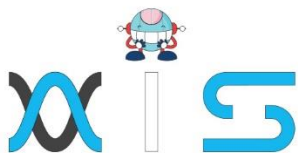


PECB

SDI Service Desk Institute

EC-COUNCIL





*The program presented, as well as a wide range of programs are products of the partnership of AIS, SAS Management, Inc., and Simplilearn. With a common goal of providing the best practice of facilitating learning with an array of choices available in the online platform in this time of digitization.*

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