CERTIFIED DEVOPS PROFESSIONAL PROGRAM

Simple | Smart | Speed

CHOOLS

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INTRODUCTION TO DEVOPS

Welcome, future Devops   professional! A Certified Devops   Professional course teaches you the skills and knowledge required to implement and manage Devops   practices, tools, and technologies in an organization. Devops   is a set of principles and practices that aim to improve the collaboration, communication, and efficiency between software development and operations teams. Devops   can help organizations deliver software faster, more reliably, and more securely. With this course, you will be that professional who achieves this.

Why Choose Chools?

Numbers That Speak for Themselves:

- 10,000+ Successful Alumni: Join a network of impactful professionals.
- 95% Job Placement Rate: Secure your future with Chools' proven track record.
- 20+ Years of Excellence: Trust in a legacy of education and industry expertise.
- 200+ Industry Partnerships: Leverage our connections for real-world insights and opportunities.

What Sets Us Apart?

- **Expert Instructors:** Learn from industry veterans with hands-on experience.
- **Hybrid Learning Model:** Balance online flexibility with in-person engagement.
- **Comprehensive Curriculum:** Stay ahead with courses designed meet market demands.
- **Community and Networking:** Be part of an active community of learners and professionals.

Who Can Apply?

Eligibility Criteria:

- Suitable for both those who have none or some programming experience, as well as those with and without college degrees.

Ideal Candidates:

- Professionals aiming to advance their careers in Devops and earn a globally recognized credential.

Program Overview

The Certified Devops Professional Program provides extensive education in Devops practices. Our curriculum ensures a comprehensive understanding through four progressive stages, combining theoretical knowledge with practical, hands-on experience.

Learning Mode:

- **Hybrid Learning Model:** Combines online learning with in-person sessions for flexibility and interactive engagement.
- **Interactive Sessions:** Includes live webinars, workshops, and Q&A forums with expert instructors and peers.
- **Self-paced Learning:** Access course materials anytime, allowing you to learn at your own pace.

Skills Learned

- **Devops Continuous Integration/Continuous Deployment (CI/CD):** Implementing automated deployment pipelines.
- **Devops Infrastructure as Code (IaC):** Managing infrastructure using code.
- **Devops Containerization:** Using Docker and Kubernetes.
- **Devops Monitoring and Logging:** Keeping track of system performance.
- **Devops Collaboration Tools:** Using tools like Jenkins, Git, and Ansible.
- **Devops Automation:** Automating repetitive tasks to improve efficiency.
- **Devops Cloud Services:** Utilizing cloud platforms for Devops .
- **Devops Security in Devops (DevSecOps):** Integrating security practices in Devops .

Job Positions and Opportunities

- **Devops Career Paths:** Devops Engineer, Cloud Engineer, Automation Engineer, Systems Administrator, Site Reliability Engineer (SRE), IT Operations Manager.
- **Devops Industry Demand:** High demand across various sectors, competitive salaries, and strong growth potential.

Key Industry Verticals

- **Skill Application Areas:** Technology, Finance, Healthcare, Government, Retail, Energy, Telecommunications, Manufacturing

Curriculum Highlights:

- **Devops Fundamental Knowledge:** Core principles of Devops .
- **Devops Advanced Techniques:** In-depth understanding of advanced Devops tools and practices.
- **Devops Real-World Applications:** Practical projects and case studies to apply your learning.
- **Devops Capstone Project:** A final project that integrates all your skills and knowledge, showcasing your proficiency in Devops .

Professional Development:

- **Devops Continuous Learning:** Stay updated with the latest trends and advancements in Devops .
- **Devops Networking Opportunities:** Connect with industry experts, peers, and alumni to advance your career.
- **Devops Ethical Considerations:** Learn about data ethics, privacy, and compliance to maintain the integrity of your practices.

Program Objectives

- Devops Master technical skills in Devops .
- Devops Implement advanced Devops techniques and tools.
- Devops Explore Devops frameworks and best practices.
- Devops Address real-world challenges in Devops .
- Devops Understand ethical considerations in data governance.
- Devops Foster continuous learning.
- Devops Encourage teamwork and collaboration.
- Devops Prepare for advanced roles in Devops .

Expected Outcomes

- Devops Proficiency in Devops tools and techniques.
- Devops Practical experience through hands-on projects.
- Devops Strong analytical and problem-solving skills.
- Devops Application of ethical practices.
- Devops Innovation in Devops solutions.

PROGRAM OUTLINE

Stage 1: Fundamentals of Devops

1. Introduction to Devops
o Core principles, tools, and industry applications.

2. Version Control with Git
o Managing code versions and collaboration.

3. Continuous Integration
o Automating code integration and testing.

4. Configuration Management
o Managing system configurations with tools like Puppet.

Stage 2: Advanced Devops Techniques

5. Continuous Deployment
o Automating application deployment.

6. Infrastructure as Code (IaC)
o Managing infrastructure using tools like Terra form.

7. Containerization with Docker
o Building and managing containers.

8. Orchestration with Kubernetes
o Managing containerized applications at scale.

Stage 3: Practical Applications

9. Practical Devops Projects
o Developing and implementing Devops projects.

10. Monitoring and Logging
o Tracking system performance and logs.

11. Security in Devops (DevSecOps)
o Integrating security practices in Devops .

12. Business Intelligence Applications
o Using data for Devops decision making.

Stage 4: Capstone Project

13. Integration of Learned Skills
o Apply tools and techniques to real-world Devops problems.

14. Advanced Devops Systems
o Developing complex Devops systems.

15. Cloud Devops Management
o Securing and managing Devops in cloud environments.

16. AI for Devops
o Implementing AI solutions in Devops .

Elective Modules

17. Data Ethics and Privacy
o Ethical considerations, privacy laws, compliance strategies.

18. Predictive Analytics with Devops Management
o Building and validating predictive models.

19. AI for Devops Management
o Implementing AI solutions in Devops .

20. Advanced Data Warehousing Techniques
o Optimizing data warehousing solutions.

21. Data-Driven Devops Decision Making
o Using data to inform and drive Devops strategies.

22. Cloud Devops Solutions
o Deploying Devops management systems on cloud platforms.

23. Devops Project Management
o Leading Devops projects, ensuring successful delivery.

24. Big Data Security
o Securing data in big data environments.

25. IoT Devops
o Securing and managing Devops for IoT devices and networks.

Enrollment Now Open!

Take the first step towards becoming a certified Devops Professional. Enroll in our program and enhance your career.