Ramaq Chools™
Consulting, Training & IT Services

DEVOPS PRACTITIONER

info@ramaqchools.com
+966536834733
ramaqchools.com

Contents

info@ramaqchools.com +966536834733 ramaqchools.com

Ramaq Chools
Consulting, Training & IT Services

Introduction to DevOps Practitioner

This course teaches you how to use Dev Ops principles and practices to improve the collaboration and efficiency of software development and operations teams. Dev Ops is a culture and methodology that aims to deliver software products faster and with higher quality, by integrating and automating various aspects of the software lifecycle, such as planning, coding, testing, deploying, and monitoring. The topics included are:

- Dev Ops fundamentals and benefits
- Dev Ops tools and technologies
- Dev Ops processes and workflows
- Dev Ops culture and mindset
- Dev Ops challenges and best practices

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 to meet market demands.
- **Community and Networking:** Be part of an active community of learners and professionals.

Who Can Apply?

Eligibility Criteria:

- Anyone who is a part of any kind of IT project or wish to understand the DevOps methodology will benefit from this course and be eligible

Ideal Candidates:

Working professionals looking to advance their careers in DevOps Practitioner .

Program Overview

The DevOps Practitioner Emerging Business Program provides an extensive education in DevOps Practitioner . 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.

info@ramaqchools.com +966536834733 ramaqchools.com

Ramaq Chools
Consulting, Training & IT Services

Curriculum Highlights:

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

Professional Development:

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

info@ramaqchools.com
+966536834733
ramaqchools.com

Program Objectives

- **Authenticate the Fundamentals of DevOps:** Understand the core principles and practices of DevOps.
- **Ongoing Delivery and Integration Processes:** Learn how to implement continuous delivery and integration processes.
- **Tools for Automation:** Gain proficiency in using tools that automate various aspects of DevOps.

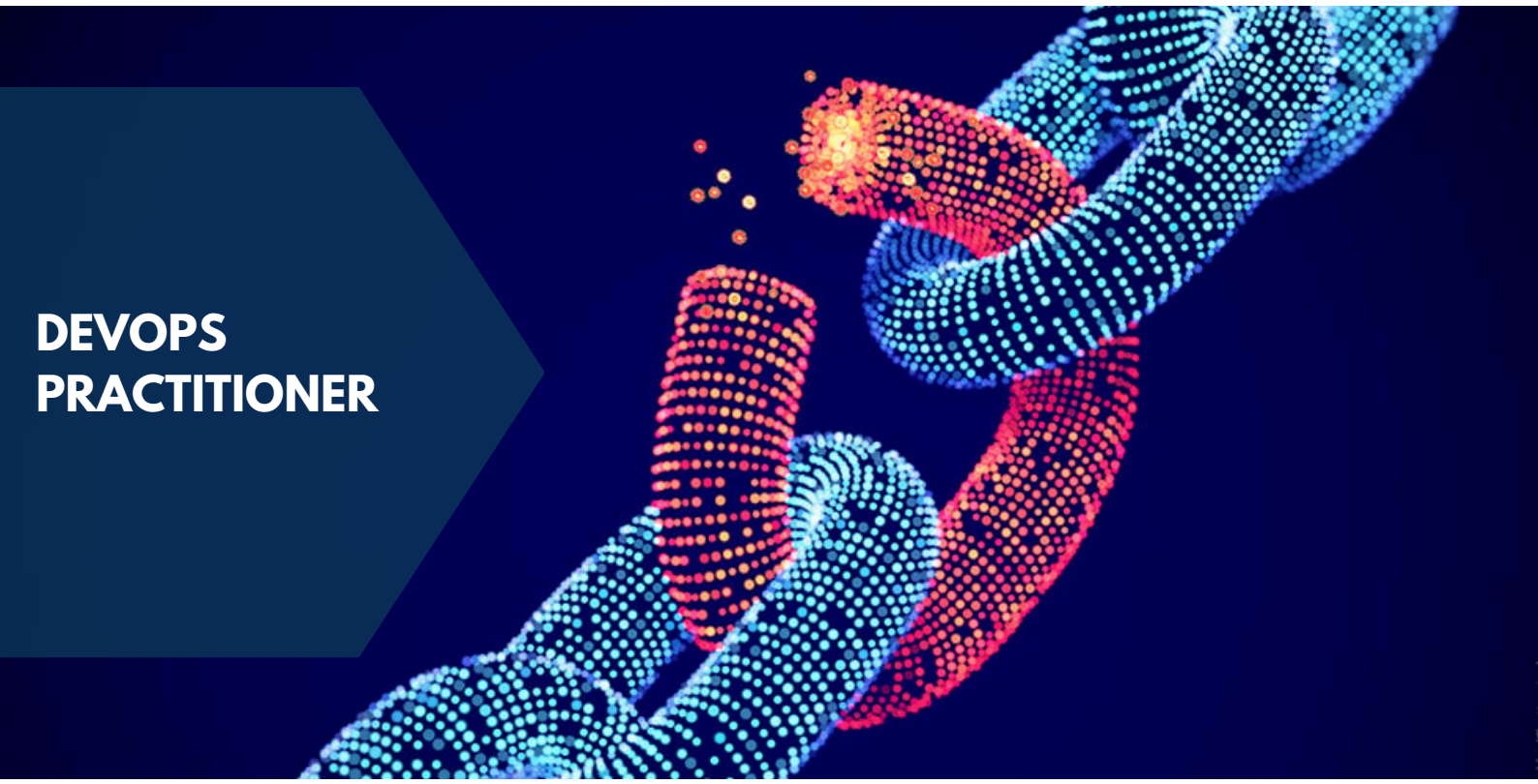
DevOps Practitioner

Expected Outcome

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

Skills Learned

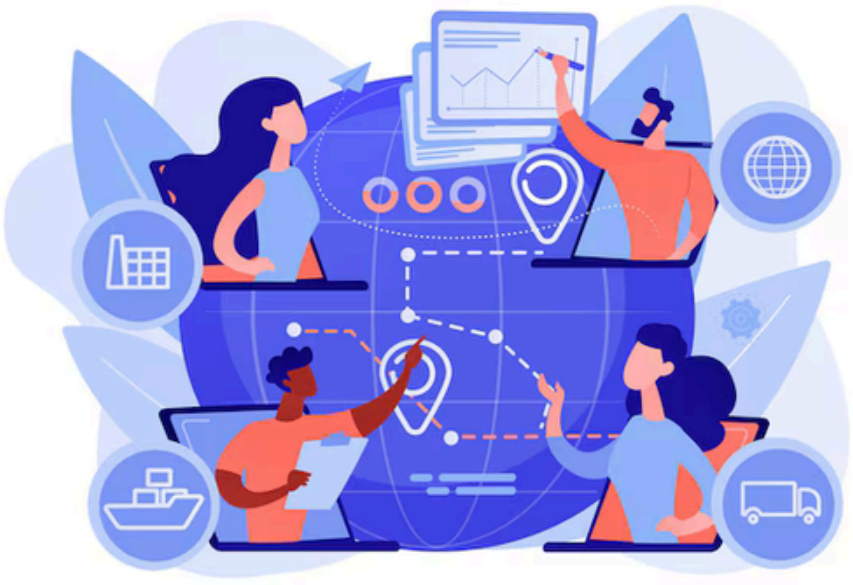
- **Continuous Integration and Continuous Delivery (CI/CD):** Understand the principles and practices of CI/CD and how to implement them to automate the software development and deployment process.
- **Infrastructure as Code (IaC):** Learn how to manage and provision infrastructure using code and automation tools, ensuring consistency and scalability.
- **Containerization and Orchestration:** Gain proficiency in using containerization technologies like Docker and orchestration tools like Kubernetes to manage and deploy applications
- **Monitoring and Logging:** Develop skills in setting up monitoring and logging systems to track application performance, identify issues, and ensure system reliability.



DEVOPS PRACTITIONER

Job Positions and Opportunities

- TPM Manager
- Assistant Manager Maintenance
- Maintenance Engineer
- Manufacturing Engineer
- Zero Emission Bus - Total Program Sales Manager
- Maintenance Engineer (Quality HR Services).



Industry Demand

- High demand across various sectors
- Competitive salaries
- Strong growth potential

Key Industry Verticals

E-commerce and Retail, Manufacturing and Automotive, Healthcare and Pharmaceuticals, Technology and Electronics, Logistics, SOil and Gas, Agriculture and Agribusiness, Fashion and Apparel.

info@ramaqchools.com +966536834733 ramaqchools.com

DevOps Practitioner

Program Outline

Stage 1: Fundamentals of DevOps Practitioner

- **Understanding DevOps:** Learn the core principles and practices of DevOps, including the cultural and technical aspects that drive successful DevOps implementation.
- **Continuous Integration and Continuous Delivery (CI/CD):** Understand the importance of CI/CD and how to implement these practices to automate the software development and deployment process.
- **Automation and Infrastructure as Code (IaC):** Gain knowledge of automation tools and practices, including Infrastructure as Code (IaC), to manage and provision infrastructure using code.

Ramaq Chools
Consulting, Training & IT Services

DevOps Practitioner

Stage 2: Advanced DevOps Practitioner Techniques

- **Continuous Integration and Continuous Deployment (CI/CD):** Deep dive into CI/CD practices, including advanced techniques for automating the software development and deployment process.
- **Infrastructure as Code (IaC):** Advanced use of IaC to manage and provision infrastructure using code, ensuring consistency and scalability
- **Containerization and Orchestration:** Mastery of containerization technologies like Docker and orchestration tools like Kubernetes to manage and deploy applications efficiently.

DevOps Practitioner

Stage 3: Practical Applications

- **Automating Software Development and Deployment:** Implement Continuous Integration (CI) and Continuous Delivery (CD) pipelines to automate the software development and deployment processes. Use tools like Jenkins, GitLab CI, and Azure DevOps to streamline code integration, testing, and deployment.
- **Infrastructure Automation:** Utilize Infrastructure as Code (IaC) practices to automate the provisioning and management of infrastructure. Tools like Terraform and Ansible can help you define and deploy infrastructure configurations consistently and efficiently
- **Monitoring and Performance Management:** Set up robust monitoring and logging systems using tools like Prometheus, Grafana, and ELK Stack (Elasticsearch, Logstash, Kibana) to track application performance, detect issues, and ensure system reliability. Implement automated alerting and incident response mechanisms to address issues promptly.

Stage 4: Capstone Project

Assessment and Planning:

- Conduct an assessment of the current software development and deployment processes.
- Identify areas for improvement and define the scope and objectives of the DevOps implementation.

CI/CD Pipeline Development:

- Design and implement a Continuous Integration (CI) and Continuous Delivery (CD) pipeline using tools like Jenkins, GitLab CI, or Azure DevOps.
- Automate the build, test, and deployment processes to ensure faster and more reliable software releases.

Infrastructure as Code (IaC):

- Implement Infrastructure as Code (IaC) practices using tools like Terraform or Ansible.
- Define and provision infrastructure configurations consistently and efficiently through code.

info@ramaqchools.com
+966536834733
ramaqchools.com

DevOps Practitioner

Elective Modules

- **Advanced CI/CD Pipelines:** Dive deeper into the design and implementation of advanced Continuous Integration and Continuous Delivery (CI/CD) pipelines. Learn how to optimize and automate build, test, and deployment processes for greater efficiency and reliability.
- **Cloud DevOps:** Explore cloud-based DevOps practices and tools. Gain proficiency in using cloud platforms like AWS, Azure, or Google Cloud to implement and manage DevOps processes at scale.
- **DevSecOps:** Integrate security into the DevOps pipeline. Learn how to implement security practices and tools to ensure that applications are secure throughout the development and deployment lifecycle.

Enrollment Now Open

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

Ramaq Chools
Consulting, Training & IT Services

Contact Us:

info@ramaqchools.com

+966536834733

ramaqchools.com