Certified DevOps Specialist

OEM: Arcitura • Duration: 3 Days (24 hrs) • Code: ARC-DO

COURSE MODULES & TOPICS

Module 1: Fundamental DevOps

- Business Drivers of DevOps
- IT Roles in DevOps Projects
- Goals and Benefits of DevOps Adoption
- Interoperability and Transparent Collaboration
- Rapid Delivery, Responsive Scalability and Increased Reliability
- Impacts and Challenges of DevOps Adoption
- Automation, Measurement and Unified Metrics
- DevOps Platform and Toolchain
- The 20 Common DevOps Tools, Repositories and Systems
- DevOps Lifecycle and Stages
- Delivery Pipeline, Feedback Loop and Dark Launching
- Continuous Integration (CI) and Continuous Delivery (CD)
- Automated Builds and Automated Testing
- Continuous Deployment and Automated Release Management
- Dependency Management, Infrastructure Resource Staging and Compliance Verification
- Introduction to IaC, PaC and CaC

Module 2: DevOps in Practice

- Understanding Codified Definitions
- Infrastructure-as-Code (IaC) and Configuration Modules
- Continuous Testing and Collaborative Version Control
- Immutable Infrastructure and Self-Documented Resources
- Configuration-as-Code (CaC) and Continuous Software Releases
- Traceable Configuration Changes and Configuration Status Awareness
- Programmatic Versioning and Automated Configuration Testing
- Policy-as-Code (PaC) and Policy Systems
- Automated Policy Application and Enforcement Testing
- The 17 Common DevOps Metrics
- Continuous Monitoring
- The 8 Common DevOps Monitors

- Measuring DevOps, Mapping Metrics to Monitors
- Mapping Metrics and Monitors to Pipeline Stages
- DevOps with Microservices and Containers
- DevOps with Cloud Computing and Pay-Per-Use Monitoring
- CI, CD, Continuous Deployment with Microservices and Cloud Computing
- IaC, CaC, PaC with Microservices and Cloud Computing

Module 3: DevOps Lab

- Reading Exercise 3.1: CSD Mini Case Study Background
- Lab Exercise 3.2: Project Timeline Optimization
- Lab Exercise 3.3: Post-Deployment Challenges
- Lab Exercise 3.4: Responsiveness to Feedback
- Lab Exercise 3.5: Disparate Testing Tools and Practices
- Reading Exercise 3.6: AIC Mini Case Study Background
- Lab Exercise 3.7: Continuous Releases and Lead Time
- Lab Exercise 3.8: DevOps Practices and Automation
- Lab Exercise 3.9: Tools, Repositories and Systems
- Lab Exercise 3.10: Rapid Deployment and Codified Definitions
- is authored by a dedicated courseware development team
- has a self-test, accreditation exam and professional certification
- is available via two different eLearning platforms
- undergo a common development process
- are authored to be consistent in quality, structure and style
- share a common vocabulary and symbol notation
- are authored in collaboration with subject matter experts
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