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Global Learning Services

EXIN

DevOps Professional Certification Training - Brochure

Accelerate business value and maintain sustainable work practices

Course Name : DevOps Professional Certification
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Importance of DevOps

DevOps is an emerging cultural, and professional movement found especially in the field of software services that advocates improved communication, collaboration, and integration between development and IT operations in an organization. DevOps brings success to the organization by enabling Agile development, Lean improvement, and Service Management within and improves security and control in a continuous delivery pipeline.

DevOps has flourished over the last 4 to 5 years, and enterprises are keen to add this methodology to their enterprise culture to gain a better understanding of development and operations together to optimize their IT services and significantly improve their ROI.

Get Invensis Learning Advantage

- EXIN accredited DevOps Professional certification exam training
- Expert trainer, interactive sessions with case studies
- DevOps Professional sample mock tests
- Classes across 108+ locations worldwide
- Exam fee included in the training course
- 16 PDUs certificate provided
- Instructor-led training that is always on schedule
- Global approval and accreditation

Key Benefits of DevOps for Businesses

- Delivers better software at a faster pace to enable sustained innovation
- Creates broader enterprise security strategies
- Control of business-critical data through multiple layers of data security
- Enhanced application quality and time-to-market
- Increases agility and stability of business-critical processes

About EXIN DevOps Master Training Course

EXIN DevOps Professional is a course is ideal for individuals and organizations who are looking for a fundamental understanding of essential DevOps practices. As a DevOps Professional you will be able to showcase your understanding of DevOps adoption, the Three Ways in flow; feedback; and continual learning and experimentation, information security and change management. With this credential, you clearly demonstrate the impact of these organizational and technical changes on their daily work.

Target Audience for DevOps Master Certification

Job roles that can benefit from DevOps Professional Certification include, but are not limited to:

- Software and Website Developers
- System Engineers
- DevOps Engineers
- Product and Service Owners
- Project Managers
- Test Engineers
- IT Service Management operating and support staff
- Process Managers
- Lean IT Professionals
- Agile Scrum practitioners

About Invensis Learning

Invensis Learning is a leading certification training provider for individuals and enterprises globally. Our expertise in providing globally-recognized IT & Technical certification courses has enabled us to be one of the trusted certification training partners for many Fortune 500 organizations and Government institutions worldwide. Invensis Learning has trained and certified thousands of professionals across a wide range of categories such as IT Service Management, Project Management, Quality Management, IT Security and Governance, Cloud Computing, DevOps, Agile Project Management, and Digital Courses. Invensis Learning's certification training programs adhere to global standards such as PMI, TUV SUD, AXELOS, ISACA, DevOps Institute, EXIN, and PEOPLECERT.

DevOps Master Course Overview

DevOps Adoption

- Basic Concepts of DevOps

  The candidate can...

  - Describe basic DevOps concepts like continuous delivery, Agile infrastructure, Kata, WIP, technical debt and lead time
- Principles of the Three Ways

  The candidate can...

  - Distinguish the principles of flow, feedback and continuous learning and experimentation.
  - Explain the difference between System of Records (SoR) and System of Engagement (SoE) in relationship to DevOps.
- Organization

  The candidate can...

  - Explain how the several DevOps roles work together in order to add value to the business.
  - Explain the differences between I-shape, T-shape, and E-shape in relationship to DevOps.
  - Explain how to integrate Operations into the daily work of Development.

The First Way: Flow

- Deployment Pipeline

  The candidate can...

  - Choose techniques, such as infrastructure as code and containers, to solve a deployment pipeline problem.
  - Choose the best solution to optimize the value stream.

    - Assess a shared version control repository for completeness.
    - Adapt the Definition of Done (DoD) in order to reflect the DevOps principles.
    - Explain how tooling can be used to automate the building and configuration of the environment.
- Automated Testing

  The candidate can...
    - Explain the difference between a non-ideal testing pyramid and an ideal testing pyramid.
    - Select the intended use of test-driven development in a flow.
- Continuous Integration

  The candidate can...
    - Choose the optimal branching strategy.
    - Explain the influence of technical debt on the flow.
    - Explain how to eliminate technical debt.
- Low-risk Releases

  The candidate can...
    - Discriminate the several release and deployment patterns in order to enable low-risk releases.
    - Select the right architectural archetype to use.

The Second Way: Feedback

- Telemetry

  The candidate can...
    - Describe how telemetry can contribute to optimizing the value stream.
    - Describe the monitoring framework components.
    - Explain the added value of self-service access to telemetry.

- Feedback

  The candidate can...

  - Solve deployment problems using fix forward and roll back techniques.
  - Change launching guidance requirements checklists to fit into a DevOps guidance.
  - Apply safety checks using the Launch Readiness Review (LRR) and the Hand-Off Readiness Review (HRR).
  - Explain how user experience (UX) design can be used as a feedback mechanism.
- Hypothesis-Driven Development and A/B Testing

  The candidate can...

  - Explain how A/B testing can be integrated into a release and into feature testing.
  - Explain how hypothesis-driven development can aid the delivery of expected outcome.
- Review and Coordination

  The candidate can...

  - Examine the effectiveness of a pull request process.
  - Explain the review techniques: pair programming, over-the-shoulder, e-mail pass-around and tool-assisted code review.
  - Choose the best review technique for a given situation.

The Third Way: Continual Learning and Experimentation

- Learning

  The candidate can...

  - Differentiate between the several Simian Army Monkey types to improve learning.
  - Conduct a blameless post-mortem meeting.
  - Explain how the injection of production failure creates resilience.
  - Explain when to use game days.

- Discoveries

  The candidate can...

  - Describe how to use (codified) non-functional requirements (NFR) to design for Operations.
  - Explain how to build reusable operations user stories into development.
  - Explain which objects should be stored in the single shared source code repository.
  - Explain how to convert local discoveries into global improvements.

Information Security and Change Management

- Information Security

  The candidate can...

  - Explain how to integrate preventative security controls.
  - Explain how to integrate security in the deployment pipeline.
  - Explain how to use telemetry for enhancing security.
- Change Management

  The candidate can...

  - Explain how to maintain security during the change.
  - Explain how to maintain compliance during the change.

CONTACT INVENSIS LEARNING

Email Us:

support@invensislearning.com

USA +1-910-726-3695

IND +91 9620-200-784

UK +44 2033-223-280

Hong Kong +852-5803-9039

Switzerland +41-22-518-2042

www.invensislearning.com