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Peoplecert DevOps-Foundation Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Exploring DevOps: This section of the exam measures the skills of DevOps engineers and covers the foundations of DevOps, including its emergence as a critical discipline in the digital era. It introduces learners to the basic purpose, evolution, and significance of DevOps in modern software and infrastructure environments.

Topic 2	<ul style="list-style-type: none"> • Measurement, Metrics, and Reporting: This section of the exam measures the skills of DevOps engineers and covers metrics that help monitor and evaluate the performance of DevOps practices. Topics include speed, quality, culture, change lead time, cycle time, and the use of dashboards, value-driven metrics, and AIOps in reporting and decision-making.
Topic 3	<ul style="list-style-type: none"> • Key DevOps Practices: This section of the exam measures the skills of DevOps engineers and covers core DevOps practices including Continuous Integration, Continuous Testing, Continuous Delivery, and Continuous Deployment. It explores concepts such as Site Reliability Engineering, DevSecOps, Value Stream Management, Platform Engineering, and modern practices like ChatOps and observability.
Topic 4	<ul style="list-style-type: none"> • Sharing, Shadowing and Evolving: This section of the exam measures the skills of IT operations specialists and covers the collaborative and adaptive elements of DevOps in enterprise settings. It explores leadership, typical barriers and risks, and outlines how organisations can evolve their DevOps practices through continuous learning, peer shadowing, and experience-based transformation.
Topic 5	<ul style="list-style-type: none"> • Core DevOps Principles: This section of the exam measures the skills of IT operations specialists and covers essential DevOps principles such as the Three Ways, the Theory of Constraints, and Chaos Engineering. It also introduces the concept of learning organisations, showing how systemic thinking supports continuous improvement.
Topic 6	<ul style="list-style-type: none"> • Automation, Architecting DevOps Toolchains: This section of the exam measures the skills of IT operations specialists and covers key automation principles within the DevOps toolchain. It focuses on CI • CD pipelines, Infrastructure as Code, containerisation, cloud-native architecture, platform engineering, and emerging technologies like Machine Learning and Generative AI in DevOps contexts.
Topic 7	<ul style="list-style-type: none"> • Culture, Behaviours, Operating Models: This section of the exam measures the skills of DevOps engineers and covers how to assess and evolve organisational culture in relation to DevOps transformation. It includes concepts such as Cultural Debt, Behavioural Models, and Organisational Maturity, helping professionals understand team dynamics and readiness for change.

Peoplecert PeopleCert DevOps Foundationv3.6Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48

Several members of an IT service provider's development and operations teams recently attended a local DevOps meetup. They came away very excited about applying a DevOps approach to their organization. Which of the following would be a critical success factor for their DevOps program?

- **A. Management commitment to culture change**
- B. Additional budget for new automation
- C. The design and development of a deployment pipeline for continuous integration and continuous delivery
- D. Reorganization of the IT organization into DevOps Teams

Answer: A

Explanation:

Successful DevOps transformation hinges on management commitment to cultural change. This includes leadership support for breaking down silos, encouraging collaboration, fostering psychological safety, and aligning incentives.

While budget, reorganization, and deployment pipelines are important enablers, they cannot deliver sustainable transformation without cultural alignment. Leaders must model desired behaviors, remove systemic blockers, and reinforce the new ways of working.

Without cultural change, DevOps becomes a tooling initiative rather than a true organizational shift.

References:

PeopleCert DevOps Foundation v3.6 - Culture as a Success Factor

The DevOps Handbook- Leadership Role in Transformation

NEW QUESTION # 49

An organization is architecting a DevOps toolchain that includes products from both open source and proprietary software providers.

Which of the following is necessary for applications within the toolchain to connect efficiently and effectively?

- **A. Application Programming Interfaces**
- B. Microservices
- C. Open source applications
- D. Containers

Answer: A

Explanation:

A DevOps toolchain is an integrated set of tools that supports the entire software delivery lifecycle—planning, coding, building, testing, releasing, deploying, operating, and monitoring. Regardless of whether tools are open source or proprietary, their ability to work together depends on Application Programming Interfaces (APIs).

APIs define how different software components communicate and exchange data. In a DevOps context, APIs enable:

- * Automation by allowing tools to trigger actions in other tools
- * Data flow between systems (e.g., CI pipelines updating ticketing systems)
- * Integration across heterogeneous environments

A (open source applications) is about licensing, not integration. B (containers) package and run applications consistently but do not inherently integrate tools. D (microservices) is an architectural style for applications, not the integration mechanism between delivery tools.

Therefore, C—APIs—are essential for efficient, effective toolchain integration.

References:

PeopleCert DevOps Foundation v3.6 - Toolchain Integration Principles

The DevOps Handbook- APIs as Integration Enablers

NEW QUESTION # 50

How do you define Wait Time?

- A. Cycle time minus lead time
- B. Lead time plus cycle time
- C. Cycle time multiplied by lead time
- **D. Lead time minus cycle time**

Answer: D

Explanation:

Wait Time is the time work spends waiting between process steps—wasted, non-value-added time.

- * Mathematically, $\text{Wait Time} = \text{Lead Time} - \text{Cycle Time}$
- * Lead Time: Time from work request to delivery.
- * Cycle Time: Time spent actively working on the item.

Why is this important in DevOps?

Identifying and reducing wait time (waste) is central to Lean/DevOps, directly improving flow and reducing delays.

Extract-style reference:

"Wait time is calculated as the difference between lead time and cycle time—highlighting bottlenecks in the value stream."

—DevOps Handbook

PeopleCert DevOps Foundation v3.6: Wait time is a core Lean concept for optimizing flow.

NEW QUESTION # 51

A team has recently introduced their first Kanban board and are saying that they are finding it hard to focus and are feeling exhausted from context switching. Additionally, the business is complaining that nothing is being finished and they are yet to receive any of what they asked for.

What do the team need to do?

- A. Push more work onto the board to provide more opportunities to deliver something
- B. Unblock any blocked work items
- C. Add more development resources to the team to cope with the workload
- **D. Try using Work in Progress limits**

Answer: D

Explanation:

When Kanban teams feel overwhelmed and nothing is getting finished, it's a sign that too much work is in progress (WIP).

Work in Progress (WIP) limits are a key Kanban and Lean practice: they restrict how many tasks can be active at one time, forcing teams to focus, finish, and deliver before starting new work.

* Pushing more work (A) or adding more resources (B) worsens the problem.

* Unblocking work (D) is helpful, but the core issue is overload.

Extract-style reference:

"WIP limits encourage teams to finish work before starting new tasks, reducing context switching and enabling better flow and faster delivery."

-Kanban: Successful Evolutionary Change for Your Technology Business, David J. Anderson
PeopleCert DevOps Foundation:
Limiting WIP is essential for effective flow and sustainable pace.

NEW QUESTION # 52

Regardless of structure, what should a DevOps team NOT be?

- A. Flat
- B. Balanced in terms of people and automation skills
- C. Continuously engaged
- **D. Isolated**

Answer: D

Explanation:

A core goal of DevOps is to eliminate isolation between roles, teams, and departments. Isolated teams—cut off from other parts of the value stream—create bottlenecks, reduce visibility, and slow feedback.

While flat hierarchies (A), continuous engagement (C), and balanced skills (D) are positive traits, B is the opposite of DevOps principles.

Therefore, B is the correct "NOT" choice.

References:

PeopleCert DevOps Foundation v3.6 - Anti-Patterns in Team Design

Accelerate- Effects of Silos on Performance

NEW QUESTION # 53

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