Training: DevOps Institute
Value Stream Management Foundation

PeopleCert

TRAINING GOALS:

The Value Stream Management Foundation course from Value Stream Management Consortium, and offered in partnership with DevOps Institute, is an introductory course taking learners through a value stream management implementation journey. It considers the human, process, and technology aspects of this way of working and explores how optimizing value streams for flow and realization positively impacts organizational performance.

LEARNING OBJECTIVES

- Describe the origins of value stream management and key concepts such as flow, value, and delivery
- Describe what value stream management is, why it’s needed and the business benefits of its practice
- Describe how lean, agile, DevOps, and ITSM principles contribute to value stream management
- Identify and describe value streams, where they start and end, and how they interconnect
- Identify value stream roles and responsibilities
- Express value streams visually using mapping techniques, define current and target states and hypothesis backlog
- Write value stream flow and realization optimization hypotheses and experiments
- Apply metrics such as touch/processing time, wait/idle time, and cycle time to value streams
- Understand flow metrics and how to access the data to support data-driven conversations and decisions
- Examine value realization metrics and aligning to business outcomes, and how to sense and respond to them (outcomes versus outputs)
- Architect a DevOps toolchain alongside a value stream and data connection points
- Design a continuous inspection and adaptation approach for organizational evolution

AUDIENCE

People working in an organization aiming to improve performance, especially in response to digital transformation or disruption. Any roles involved in the creation and delivery of products or services:

- Leadership and CXO, especially CIO, CTO, CPO, and CVO

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- Transformation and evolution leads and change agents
- Value stream architects, managers, engineers
- Scrum Masters, agile and DevOps coaches and facilitators
- Portfolio, product and project managers, and owners
- Business analysts
- Architects, developers, and engineers
- Release and environment managers
- IT Ops, service and support desk workers
- Customer experience and success professionals

CONSPECT:

- Module 1 - History and Evolution of Value Stream Management and its Application
  - Value stream management’s origins
  - Definitions of value stream management
  - Flow
  - Lean and systems thinking and practices
  - Agile, DevOps and other frameworks
  - Research and analysis
- Module 2 - Identifying Value Stream
  - What is a value stream?
  - Identifying value streams
  - Choosing a value stream
  - Digital value streams
  - Value stream thinking
- Module 3 - Mapping Value Streams
  - Types of maps
  - Value stream mapping
  - The fuzzy front end
  - Artifacts
  - 10 steps to value stream mapping
  - Mapping and management
  - VSM investment case
  - Limitations of value stream mapping
- Module 4 - Connecting DevOps Toolchains
  - CICD and the DevOps toolchain

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- Value stream management processes
- Value stream management platforms
- DevOps tool categories
- Building an end-to-end DevOps toolchain
- Common data model and tools integrations

- Module 5 - Value Stream Metrics
  - The duality of VSM
  - Downtime in technology
  - Lean, DORA and Flow metrics
  - Definition of Done
  - Value metrics
  - Benefits hypotheses
  - Value streams as profit centers
  - KPIs and OKRs
- Module 6 - Inspecting the Value Stream
  - 3 Pillars of Empiricism
  - Organizational performance
  - Visibility
  - When to inspect
  - Data and discovery
  - Insights and trends
- Module 7 - Organizing as Value Streams
  - Value stream alignment
  - Team types and topologies
  - Project to product
  - Hierarchy to autonomy
  - Target Operating Model
  - Value stream people
  - Value stream roles
  - Value stream funding
- Module 8 - Evolving Value Streams
  - Why now?
  - Transitions
  - VSM capability matrix
  - VSM culture iceberg
  - Learning

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- Making local discoveries global improvements
- Managing value stream interdependencies

REQUIREMENTS:

None, although having a working knowledge of lean, agile, DevOps, and value stream principles will be useful.

Difficulty level



CERTIFICATE:

Each participant receives a confirmation of completion an accredited training.

Successfully passing (65%) the 60-minute examination, consisting of 40 multiple-choice questions, leads to the candidate receiving their Value Stream Management Foundation certification and digital badge. The certification is governed and maintained in partnership with DevOps Institute.

TRAINER:

Authorized PeopleCert Trainer

ADDITIONAL INFORMATION:

LEARNER MATERIALS

- Sixteen (16) hours of live instructor-led training via the DevOps Institute Education Partner network
- Digital Learner Manual
- Access to additional sources of information
- Option to join the DevOps Institute and Value Stream Management Consortium membership communities

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