Value Stream Management Foundation™ Course
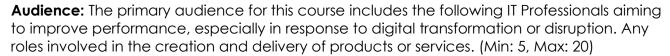
Course Description:

The course introduces value stream management principles, practices, and tools. Designed to optimize value flow and realization in digital value streams and develop individuals' skills. Digital value streams include the software applications and services in addition to the platforms that support them e.g., cloud infrastructure or DevOps toolchains.

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.

DevOps Institute® and ITSM Academy® provides the course curriculum and the exam is provided through DevOps Institute®.

Course Objectives: Attendees acquire an understanding of:

- ✓ Describe the origins of value stream management & key concepts such as flow, value, 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
- ✓ 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

Audience: The primary audience for this course includes the following IT Professionals aiming to improve performance, especially in response to digital transformation or disruption. Any roles involved in the creation and delivery of products or services. (Min: 5, Max: 20)

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

Course Length: 16 hours (can be 2-4 days based on customer schedule preference)

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

Course Materials:

- ✓ Instructor-led training, exercises, and assignment facilitation
- ✓ Digital Learner Manual (excellent post-class reference)
- ✓ Participation in interactive exercises and discussions designed to apply concepts
- ✓ Sample exams and exam preparation
- ✓ Additional resources of information (Videos, Reports, Articles, Websites, Research, Blogs, Books)
- ✓ Value Stream Management Foundation examination provide by DevOps Institute

Certification Exam:

Learners who choose to certify in this DevOps discipline will be equipped to earn the **Value Stream Management Foundation Certification** by achieving a passing score (65%) on the 60-minute exam, consisting of 40 multiple choice questions. Participants are provided with an **exam voucher** so they can schedule the exam at their convenience after the course.

Course Outline: Value Stream Management Foundation

Module 1: History and Evolution
- Value stream management's origins
- Definitions of value stream management
- Flow, Lean and systems thinking and practices
- Agile, DevOps and other frameworks

Module 2: Identifying Value Streams
- What is a value stream?
- Identifying and Choosing value streams
- Digital value streams, Value stream thinking

Module 3: Mapping Value Streams
- Type of maps, Value Stream Mapping
- The fuzzy front end, Artifacts
- 10 steps to value stream map
- Mapping and management
- VSM investment case
- Limitations of value stream mapping

Module 4: Connecting DevOps Toolchains
- CICD and the DevOps toolchain
- Value stream management processes
- Value stream management platforms
- DevOps tool categories
- Building an end-to-end DevOps toolchain
- Common data model & tools Integrations

Module 5: Value Stream Metrics
- DOWNTIME in technology value streams
- Lean, DORA and Flow metrics
- Definition of Done, Value metrics
- Benefits hypotheses, KPIs and OKRs
- Value streams as profit centers

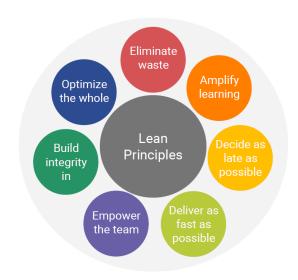### Module 6: Inspecting the Value Stream
- 3 Pillars of Empiricism
- Organizational performance
- Visibility, When to inspect
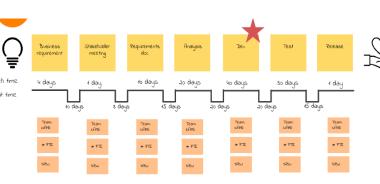- Data and discovery, Insights and trends

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, roles, funding

Module 8: Evolving Value Streams
- Why now, Transitions
- VSM capability matrix
- VSM culture iceberg, Learning
- Managing value stream Interdependencies

Value Stream Management Platforms

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