Course Title: SAFe® DevOps	**Course Duration**: 2.0 Days
Exam: Included	**Exam Type**: Proctored Exam
Qualification: SAFe® DevOps Certificate	

Course Syllabus

Our SAFe® DevOps training course includes the following syllabus:

Module 1: Introducing DevOps

- Recognise the problem to be solved
- Explain DevOps and its benefits
- Describe continuous security and testing
- Describe core DevOps principles

Module 2: Mapping Your Pipeline

- Explain the purpose of mapping the Value Stream
- Visualise the current state of the delivery pipeline using key metrics

Module 3: Gaining Alignment With Continuous Exploration

- Create solution hypotheses
- Collaborate and research customer needs
- Architect the solution for continuous delivery
- Synthesise the Vision, the Roadmap, and the Program Backlog

Module 4: Building Quality And Continuous Integration

- Develop the solution
- Build continuously
- Test end-to-end
- Validate on a staging environment

Module 5: Reducing Time-To-Market With Continuous Deployment

- Deploy to production
- Verify the solution
- Monitor for problems
- Respond and recover

Module 6: Delivering Business Value With Release On Demand

- Release on demand
- Stabilise the solution

- Measure the business value
- Learn and react

Module 7: Taking Action

- Prioritise the backlog
- Share your DevOps action plan

Module 8: Becoming A SAFe DevOps Practitioner

- Becoming a SAFe DevOps Practitioner

Course Overview

Our two-day SAFe® DevOps training course will help people across technical, non-technical, and leadership roles work together to optimise their value stream from end to end. Attendees will learn what DevOps is, why it is important to every role, and design a continuous delivery pipeline that is tailored to their business.

Attendees work in cross-functional teams to map their current state value stream from concept to cash, identify major bottlenecks to flow, and build an actionable implementation plan that will accelerate the benefits of DevOps in their organisation.

Course Learning Outcomes

Our SAFe® DevOps training course is designed to provide participants with a comprehensive understanding of DevOps principles and practices within the context of the Scaled Agile Framework (SAFe®).

The key outcomes of SAFe® DevOps training include:

- **Understanding DevOps principles:** Participants gain a solid understanding of the core principles and values of DevOps, including the importance of collaboration, automation, and continuous delivery. They learn how to foster a culture of shared responsibility and enable seamless collaboration between development, operations, and other stakeholders.
- **Implementing DevOps in a SAFe® environment:** The training provides insights into how DevOps fits into the larger SAFe® framework. Participants learn how to align DevOps practices with other elements of SAFe®, such as Agile development, Lean thinking, and the Continuous Delivery Pipeline.
- **Streamlining software delivery:** Participants gain knowledge about various practices and tools that enable faster and more reliable software delivery. This includes continuous integration, continuous deployment, infrastructure as code, release automation, and continuous testing. They learn how to optimise the software delivery process and minimize lead time, while maintaining quality and stability.
- **Collaboration and communication:** SAFe® DevOps training emphasises the importance of collaboration and effective communication among teams. Participants learn how to establish cross-functional teams, foster a culture of collaboration, and implement effective communication channels and practices.
- **Continuous improvement:** The training provides participants with an understanding of the value stream mapping technique, which helps identify inefficiencies and bottlenecks in the software delivery process. Participants learn how to analyse the value stream, identify improvement opportunities, and implement changes to continuously improve the delivery pipeline.

Audience

Our SAFe® DevOps training course is suited for the following roles:

- Executives and Leaders, Managers, Directors, CIOs, and VPs

- Development, QA, and Infrastructure Management
- Program and Project Managers
- Product and Product Line Management
- Portfolio Managers, PMO, and Process Leads
- Enterprise, System, and Solution Architects

Entry-Level Requirements

Our SAFe® DevOps training course is open to everyone, regardless of experience. However, it is recommended that participants have a basic understanding of Agile principles and practices, as well as some familiarity with DevOps concepts. This foundation will help participants grasp the concepts and discussions covered in the training more effectively.

Here are some suggested prerequisites or beneficial knowledge areas that can enhance the learning experience:

- Agile knowledge: It is beneficial to have a basic understanding of Agile methodologies such as Scrum or Kanban. Familiarity with Agile principles, practices, and terminology will provide a solid foundation for understanding how DevOps fits into the Agile mindset.
- DevOps awareness: Having a general awareness of DevOps concepts, principles, and practices is helpful. This includes understanding the collaboration between development and operations teams, continuous integration and deployment, infrastructure as code, and automation.
- Experience in software development or operations: While not mandatory, having experience in software development or operations can provide practical context and real-world examples that enhance the learning experience.
- Familiarity with SAFe®: While not a strict requirement, having familiarity with the Scaled Agile Framework (SAFe®) can be helpful. Understanding the basic principles and structure of SAFe®, such as Agile Release Trains (ARTs), Value Streams, and the Continuous Delivery Pipeline, will enable participants to better understand the application of DevOps within the SAFe® context.

Recommended Reading

Our SAFe® DevOps training course has no required reading material but the following books may be of help:

- "SAFe® 5.0 Distilled: Achieving Business Agility with the Scaled Agile Framework" by Richard Knaster and Dean Leffingwell
- "The DevOps Handbook: How to Create World-Class Agility, Reliability, and Security in Technology Organizations" by Gene Kim, Jez Humble, Patrick Debois, and John Willis
- "Continuous Delivery: Reliable Software Releases through Build, Test, and Deployment Automation" by Jez Humble and David Farley
- "Accelerate: The Science of Lean Software and DevOps" by Nicole Forsgren, Jez Humble, and Gene Kim

What's Included

Our SAFe® DevOps training course includes the following:

- Pre-reading
- Course Manual
- Quizzes
- Exercises

Exam Information

SAFe® (SDP) DevOps Certification Examination:

- Exam Format: Multiple Choice
- Exam Delivery: Web-Based (Single-Browser), Closed Book
- Exam Access: You Can Access The Exam Within The SAFe® Community Platform Upon Completion Of The Training Course
- Exam Duration: 90 Minutes
- Number Of Questions: 45
- Passing Score: 73% Passing Score (33/45)
- Resit Cost: $50.00

What's Next

You might be interested in our two-day SAFe® For Teams training course, where you will learn the following:

- Apply SAFe® to scale Lean and Agile development in their enterprise
- Know their team and its role on the Agile Release Train
- Know all other teams on the train, their roles, and the dependencies between the teams
- Plan Iterations
- Execute Iterations and demonstrate value
- Plan Program Increments
- Integrate and work with other teams on the train

Additional Information

Our SAFe® DevOps training course has the following benefits:

- **Improved collaboration and communication:** SAFe® DevOps emphasizes the importance of collaboration and shared responsibility between development, operations, and other stakeholders involved in the software delivery process. By breaking down silos and fostering effective communication channels, organizations can achieve better alignment, faster feedback, and improved decision-making.
- **Faster time-to-market:** DevOps practices, such as continuous integration, continuous deployment, and automation, enable organizations to deliver software more quickly and frequently. By streamlining and automating processes, teams can reduce lead times, accelerate the feedback loop, and respond more rapidly to customer needs and market changes.
- **Enhanced software quality and stability:** SAFe® DevOps emphasizes the implementation of continuous testing, infrastructure as code, and release automation. These practices help improve software quality, minimize defects, and ensure stability in the production environment. By automating testing and deployments, organizations can reduce human errors and achieve greater reliability.
- **Increased productivity and efficiency:** SAFe® DevOps focuses on eliminating waste, optimizing processes, and driving efficiency. By automating manual tasks, reducing rework, and leveraging continuous integration and deployment, organizations can improve productivity, maximize resource utilization, and enable teams to focus more on delivering value rather than repetitive tasks.
- **Continuous improvement and innovation:** The SAFe® DevOps mindset encourages a culture of continuous improvement. By adopting practices such as value stream mapping and regular retrospectives, organizations can identify bottlenecks, inefficiencies, and areas for improvement in their software delivery process. This fosters a culture of innovation and enables teams to continuously enhance their processes, tools, and ways of working.
- **Business agility and competitiveness:** SAFe® DevOps is aligned with the overall Agile and Lean principles of the Scaled Agile Framework. By embracing DevOps practices within SAFe®, organizations can increase their agility, respond rapidly to market demands, and stay competitive in a fast-paced environment. They can deliver value to customers more frequently, adapt to changing requirements, and seize market opportunities effectively.