

# DEV-OPS FUNDAMENTALS



## DURATION

**In Person** 2 days

**LiveOnline** 3 sessions of 4.5 hours

## CERTIFICATION

ICAgile accredited course: The ICAgile Certified Professional, Foundation of DevOps is granted on the successful completion of this course. This certification is part of the ICAgile DevOps track along with our Agile Fundamentals and Implementing DevOps courses. We offer the complete ICAgile DevOps Track for those looking to become an ICAgile Certified Expert in DevOps (ICD-DO).



## PDU's

This course will contribute 14 PMI® Professional Development Units towards your chosen certification (7 Ways of Working and 7 Business Acumen).



## ARE YOU READY TO STREAMLINE HOW YOU DELIVER VALUE TO YOUR CUSTOMERS?

In solving one problem, agile has created a new bottleneck at the interface between development and operations teams (and others such as security teams), each having very different goals. DevOps has evolved as a way to bring these teams together and accelerate the delivery of value to the users and customers.

This course provides a solid foundation in DevOps for both business and technical personnel. Taking a holistic view, it looks at what is needed from the perspectives of the people and culture, the processes followed, and the technology used.

The experiences of organizations successfully applying DevOps is used to drive an evidence-based approach to change. Particular emphasis is placed on using value stream mapping to understand the big picture and identify any improvements to make.

## LEARNING OUTCOMES

By the end of this course you will be able to:

- Identify practices to support the desired culture.
- Evaluate how effectively the current technical practices support the delivery of value.
- Use value stream mapping to understand the needs and constraints.
- Identify what changes to make as part of continuous improvement.

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## INTENDED FOR

**This course is aimed at:**

- Managers
- Team members
- Anyone wanting to understand the case for and potential of DevOps.
- Anyone looking to understand their role and practices in a DevOps environment.
- Anyone wanting to know what changes to start making to prepare for DevOps.

## PREREQUISITES

Prior attendance at an agile introduction course such as our Agile Fundamentals would be advisable if you intend to support agile teams.

## CONTENT

**Topics and exercises covered in the course include:**

- History and challenges that led to DevOps.
- Cultural challenges and effective leadership.
- Changing the culture and processes.
- Value stream mapping.
- Effective use of the supporting technical practices (e.g. continuous integration, infrastructure as code)
- Getting useful telemetry to understand where any problems are.
- Architecture and its impact on delivering value.
- Incorporating security / DevSecOps.
- Building a pipeline for CI (Continuous Integration) / CD (Continuous Delivery).
- Continuity planning, SRE (Site Reliability Engineering), and ITIL (IT Infrastructure Library).

## METHOD USED

This is an interactive course using group discussions and paper-based exercises to understand the concepts and how they can be applied to the participants' individual circumstances.

*This program is offered as a classroom-based course as well as a LiveOnline program. Our LiveOnline delivery is over three days (each four and a half hours in duration). The instructor is live and interaction and learning objectives are the same as our in-person classes with the added benefit of being able to take this course from your home, your office or your home office. We use Zoom for our LiveOnline classes. Zoom is an easy to use and reliable cloud platform and we have in place robust security settings to ensure our users and their privacy are protected. For more information, please check out our FAQ page. For people with hearing loss, we can provide closed captions and in some cases full transcripts for our LiveOnline courses. In addition to captioning, we can also provide early access for learners with hearing loss to read through the course materials and test the tools and technologies.*

*Lecturing is kept to the minimum necessary where most of the learning is achieved by applying the practices and techniques in group exercises. Our LiveOnline delivery is over three days (each four and a half hours in duration). The instructor is 100% live and interaction and learning objectives are the same as our in-person classes with the added benefit of being able to take this course from your home, your office or your home office. Since this class is delivered over half-days it allows for greater flexibility and leaves you with time each day for other work or activities.*