# DevOps Foundation

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**INCLUSIONS**

**Exam voucher**

**LENGTH**

**2 days**

**VERSION**

**v3.4**

## DEVOPS INSTITUTE AT LUMIFY WORK

DevOps is the cultural and professional movement that stresses communication, collaboration, integration and automation in order to improve the flow of work between software developers and IT operations professionals. DevOps certifications are offered by the DevOps Institute (DOI), which brings enterprise level DevOps training and certification to the IT market.



## WHY STUDY THIS COURSE

As organisations are facing new entrants in their respective markets, they need to stay competitive and release new and updated products on a regular basis rather than one or two times a year. The two-day DevOps Foundation course provides a baseline understanding of key DevOps terminology to ensure everyone is talking the same language and highlights the benefits of DevOps to support organisational success.

This course includes the latest thinking, principles and practices from the DevOps community including real-world case studies from high performing organisations including ING Bank, Ticketmaster, Capital One, Societe Generale, and Disney that engage and inspire learners, leveraging multimedia and interactive exercises that bring the learning experience to life, including the Three Ways as highlighted in the Phoenix Project by Gene Kim and the latest from the State of DevOps and DevOps Institute Upskilling reports.

Learners will gain an understanding of DevOps, the cultural and professional movement that stresses communication, collaboration, integration, and automation to improve the flow of work between software developers and IT operations professionals.

This course is designed for a broad audience, enabling those on the business side to obtain an understanding of microservices and containers. Those on the technical side will obtain an understanding as to the business value of DevOps to reduce costs (15-25% overall IT cost reduction) with increased quality (50-70% reduction in change failure rate) and agility (up to 90% reduction in provision and deployment time) to support business objectives in support of digital transformation initiatives.

Included with this course:

- Learner Manual (excellent post-class reference)

- Participation in unique exercises designed to apply concepts

- Exam voucher

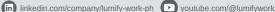- Sample documents, templates, tools and techniques

*https://www.lumifywork.com/en-ph/courses/devops-foundation/*

## LUMIFY work

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- Access to additional value-added resources and communities

**Examination**

This course pricing includes an exam voucher to sit an online proctored exam through the DevOps Institute. The voucher is valid for 90 days. A sample exam paper will be discussed during class to assist with preparation.

- Open book

- 60 minutes

- 40 multiple-choice questions

- Answer 26 questions correctly (65%) to pass and be designated as DevOps Foundation certified

**WHAT YOU'LL LEARN**

Participants will develop an understanding of:

› DevOps objectives and vocabulary

› Benefits to the business and IT

› Principles and practices including Continuous Integration, Continuous Delivery, testing, security and the Three Ways

› DevOps relationship to Agile, Lean and ITSM

› Improved workflows, communication and feedback loops

› Automation practices including deployment pipelines and DevOps toolchains

› Scaling DevOps for the enterprise

› Critical success factors and key performance indicators

› Real-life examples and results

> *My instructor was great being able to put scenarios into real world instances that related to my specific situation.*
>
> *I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable.*
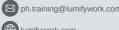>
> *I learnt a lot and felt it was important that my goals by attending this course were met.*
>
> *Great job Lumify Work team.*

**AMANDA NICOL**
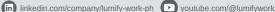**IT SUPPORT SERVICES MANAGER – HEALTH WORLD LIMITED**

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## Lumify Work Customised Training

*We can also deliver and customise this training course for larger groups saving your organisation time, money and resources.*
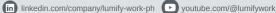
*For more information, please contact us on 02 8286 9429.*

## COURSE SUBJECTS

### Exploring DevOps

- Defining DevOps
- Why Does DevOps Matter?

### Core DevOps Principles

- The Three Ways
- The First Way
- The Theory of Constraints
- The Second Way
- The Third Way
- Chaos Engineering
- Learning Organisations

### Key DevOps Practices

- Continuous Delivery
- Site Reliability and Resilience Engineering
- DevSecOps
- ChatOps
- Kanban

### Business and Technology Frameworks

- Agile
- ITSM
- Lean
- Safety Culture

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- Learning Organisations

- Sociocracy/Holacracy

- Continuous Funding

### Culture, Behaviours and Operating Models

- Defining Culture

- Behavioural Models

- Organisational maturity models

- Target Operating Models

### Automation and Architecting DevOps Toolchains

- CI/CD

- Cloud

- Containers

- Kubernetes

- DevOps Toolchain

### Measurement, Metrics and Reporting

- The Importance of Metrics

- Technical Metrics

- Business Metrics

- Measuring and Reporting Metrics

### Sharing, Shadowing and Evolving

- Collaborative Platforms

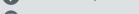- Immersive, Experiential Learning

- DevOps Leadership

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- Evolving Change

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## WHO IS THE COURSE FOR?

Professionals in areas such as management, operations, developers, QA and testing:

- Individuals involved in IT development, IT operations or IT service management

- Individuals who require an understanding of DevOps principles

- IT professionals working within, or about to enter, an Agile Service Design Environment

- The following IT roles: Automation Architects, Application Developers, Business Analysts, Business Managers, Business Stakeholders, Change Agents, Consultants, DevOps Consultants, DevOps Engineers, Infrastructure Architects, Integration Specialists, IT Directors, IT Managers, IT Operations, IT Team Leaders, Lean Coaches, Network Administrators, Operations Managers, Project Managers, Release Engineers, Software Developers, Software Testers/QA, System Administrators, Systems Engineers, System Integrators, Tool Providers

## PREREQUISITES

Recommended:

- Familiarity with IT terminology

- IT-related work experience

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