

DevOps

Certification Code 1017

Skill Sertifika Global Pte Limited

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DevOps

**“DevOps is not a goal
but a never-ending process of continual improvement”**



In today's fast - moving environment, existing applications must constantly be updated at a never increasing pace. In addition, complications often arise between developers and operational teams. Fortunately, the DevOps approach can fix this problem. But what exactly is DevOps? And how important is it for our IT students and organisations globally?

What is DevOps and why is it so important?

More than a methodology for software development, DevOps is a culture. which is necessary to meet the current needs of companies developing software, websites, applications, etc. With the traditional waterfall model, the requirements for software were clear and well-defined in advance. The definition of the product itself was also stable. Developers programmed the software, after which the operational teams handled its implementation on the business systems or the web.

But the world of IT is changing fast. Requirements change very often, and software must be developed at an ever-increasing pace. Not only must software and web applications be marketed faster, but it must also be possible to constantly update them, easily add new features and fix any bugs found. This leads to the Agile Development model. However, the team of developers should not be the only one to react quickly and efficiently; the operational team, which has to deploy and monitor the new applications, should also react the same way. This leads to the DevOps approach.

Devops is the activity of optimizing the development to operation value stream by creating an increasingly smooth and fast process of HOW an application changes from development into operation with little work. Optimistaion of the value stream takes place continuously using various continuous improvements. When we talk about Devops it is a combination or integration of **8 Knowledge areas, 4 skills and 6 principles.**

Why DevOps:

- Collaboration
- Speed
- Breaking down silos
- Innovation and creativity
- Resources and cost reduction
- Increase engagement and job satisfaction
- Fewer failure
- Increased performance
- Stability



DevOps is about:

- Constant development
- Constant testing
- Constant integration
- Constant implementation
- Constant monitoring

In the DevOps lifecycle, you go from the plan stage to the monitoring stage and then always begin a new cycle. The blue part refers to the development phase, while the green part refers to the operational phase, but it is actually a never-ending cycle, with various merging points.

Why Should one take this certification?

SkillSertifika DevOps training certification course will you for a career in DevOps, the fast-growing field that bridges the gap between software developers and operations. You'll become an expert in the principles of continuous development and deployment, automation of configuration management, inter team collaboration and IT service agility using modern DevOps tools such as Git, Docker, Jenkins, Puppet and Nagios. DevOps jobs are highly paid and in great demand so start on your path today.



What are the benefits of the DevOps approach?

IT performance: HP organisations deploy 200 times more frequently, with a 2,555 times shorter lead time. They recover 24 times faster and have 3 times lower change failure rates. **Employee loyalty:** people working in HP organisations are 2.2 times more likely to recommend their organisation as a great place to work. **Use of time:** HP organisations spend 22% less time on unplanned work and rework. This way, they are able to spend 29% more time on new work, such as new features. **Security:** 50% less time is required to fix security issues since the information about security targets are better integrated in the daily work.

Curriculum Structure

- Introduction & Why DevOps ?
- Devops culture & effects
- Organisation & People
- Processes & control
- Automation, Measures and Improvement



• Exam Details

- Number of questions: 40
- Pass mark: 26 out of 40 (65%)
- Open book/notes: NO
- Electronic equipment permitted: NO
- Duration : 1 Hour (60 Min)
- **NO NEGATIVE MARKING**





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