Deliver applications faster

DevOps

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Certificate of Attendance

Wouldn't it be great if you could speed up your organisation's ability to reliably deliver applications and services faster than traditional software development processes to enable better customer services and competing more effectively in the market? DevOps offers a combination of practices and tools designed to do just that, by removing the barriers between traditionally siloed teams, development and operations, enabling teams to work together across the whole software application lifecycle, using practices that automate slow processes that were previously done manually. Organisations have to ensure that their development teams are familiar with an Agile Development methodology to enable them to plan smarter and collaborate better.

WHY?

- Overcome the problems of traditional enterprise development
- Bridge the gap between programmers, testers and QA
- Speed up time to market
- Minimise software bugs
- Shorten the lead time between fixes

Duration: 26 consecutive weeks of online lectures and exams

Price: (including VAT in South Africa) **ZAR 29 900.00**

What's unique about this course?

This bootcamp is geared to skill your employees online as well as tap into the expertise of Subject Matter Experts (SMEs) to ensure understanding of the change and collaboration within teams in order to eliminate the bottleneck of old-school, siloed practices. Provide your people with the relevant skills to flourish in the DevOps space by covering the initial content and then moving on to DevOps, Core Concepts, and then into the Enterprise Developer and DevOps Developer, Lead and Engineer spaces.

Aimed at

Current Developers that, at a minimum, must have completed or be certified as an Azure Developer at the Associate level, or be AWS Certified on the Developer Track

IMAGINE

having the competencies and ability in your business to bridge the gap between programmers, testers and QA…

Wouldn't it be wonderful to be able to overcome the problems of traditional enterprise development, minimise software bugs and shorten the lead time between fixes? Just imagine how you could speed up time to market.

DevOps Course Overview

Format
DevOps Capability Academy Online Short Course

Breakdown
- Between 5 and 9 hours of online learning per week over 26 weeks

The following online examinations form part of the programme:
- Enterprise Developer
- DevOps Developer
- DevOps Lead
- DevOps Engineer
- Cloud DevOps Engineer

Language
English

Course Outcomes (summarised)
- An introduction to DevOps
- A DevOps Mindset
- The Language of DevOps
- DevOps and Agile
- DevOps Development – Git, Docker, Ansible, Chef, Puppet, Jenkins and Saltstack

Course Curriculum

Module 1
Introduction to DevOps

Module 2
Core DevOps Skills

Module 3
DevOps Tools

Module 4
Enterprise Developer

Module 5
DevOps Developer

Module 6
DevOps Lead

Module 7
Creating and editing Macros

Module 8
DevOps Engineer

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Course Outline

Module 1

Introduction to DevOps

Module 2

Core DevOps Concepts

Module 3

DevOps Tools

Module 4

Enterprise Developer

Module 5

DevOps Developer

Module 6

DevOps and Azure

Module 7

DevOps Lead

Module 8

DevOps Engineer

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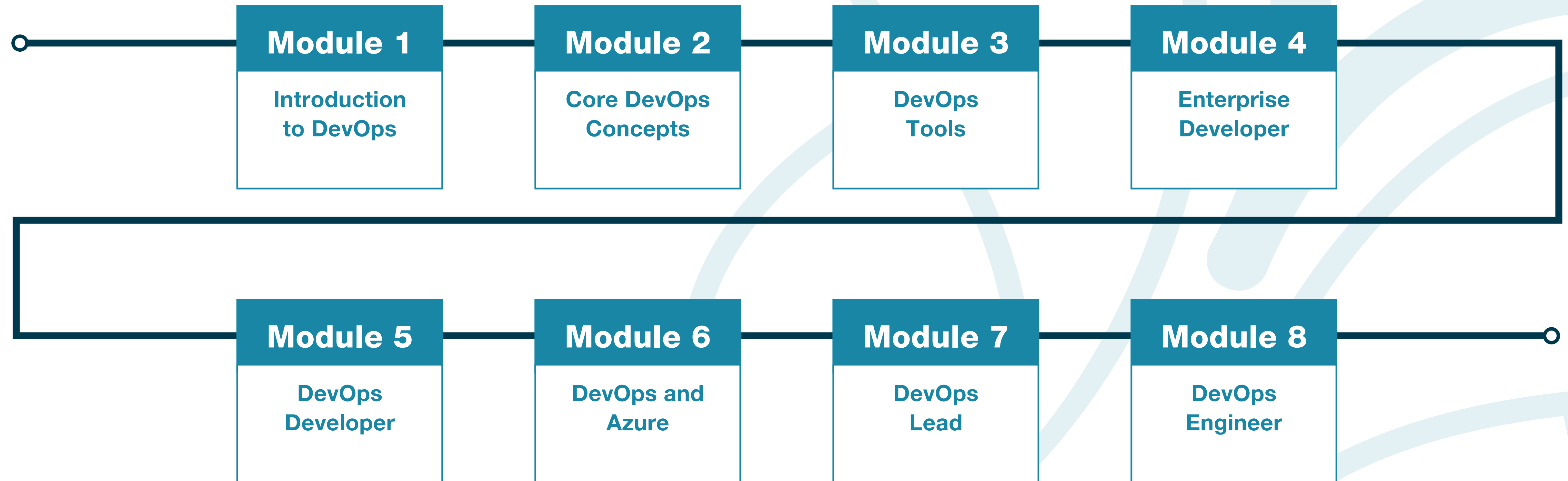
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Course and Module Overview

Module 1
Introduction to DevOps

- Core DevOps Skills: Moving toward DevOps
- Core DevOps Skills: DevOps Principles and Practices
- Core DevOps Skills: Agile and DevOps
- Core DevOps Skills: Continuous Principles
- Core DevOps Skills: Case Studies in DevOps

Module 2
Core DevOps Concepts

- DevOps Agile Development: Agile Processes for DevOps
- DevOps Agile Development: DevOps Methodologies for Developers
- DevOps Security Considerations: Securing DevOps Pipeline
- DevOps Security Considerations: DevSecOps Principles
- DevOps Continuous Testing: Testing Approaches
- DevOps Continuous Testing: Testing Methodologies
- DevOps: More than just Dev and Ops
- Maturing DevOps Practice in the Enterprise
- Your DevOps Journey: Optimising Flow
- Your DevOps Journey: Tools and Automation
- Your DevOps Journey: Architecture and Virtualisation
- Your DevOps Journey: Amplifying Feedback
- Your DevOps Journey: Continual Learning and Experimentation

Module 3
DevOps Tools

- Using Docker for DevOps: Introduction to Docker
- Using Docker for DevOps: Configuring Docker for Continuous Delivery
- DevOps with Docker: Container Management
- DevOps with Docker: Implementing DevOps using Docker
- DevOps with Docker: Management in the Cloud
- Enterprise DevOps with Docker

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Course and Module Overview

Module 4
Enterprise Developer

- DevOps Mindset: DevOps Principles and Implementation Approach
- DevOps Mindset: Understanding DevOps Tools
- The Language of DevOps: DevOps Principles and Practices
- The Language of DevOps: DevOps Tools and Processes
- DevOps Agile Development: Agile Processes for DevOps
- DevOps Agile Development: DevOps Methodologies for Developers
- DevOps Smart Failure: Fail Fast and DevOps
- DevOps Collaboration Tools: Tools for Continuous Integration
- DevOps Collaboration Tools: Tools for Continuous Delivery

Module 5
DevOps Developer

- DevOps Tools: Selecting the Right Tools
- Using Git for DevOps: Using Git Effectively
- Using Git for DevOps: Managing Conflict and Effectively using Git Workflow
- Using Docker for DevOps: Introduction to Docker
- Using Docker for DevOps: Configuring Docker for Continuous Delivery
- Ansible: Ansible for DevOps Provisioning
- Ansible: Continuous Delivery and Monitoring using Ansible Playbook and Tower
- Chef for DevOps: Managing Infrastructure using Chef
- Chef for DevOps: Automate Infrastructure using Chef Tools and Templates
- Puppet for DevOps: Installing and Working with Puppet Components
- Puppet for DevOps: Working with Puppet Bolt and Continuous Delivery for PE
- Jenkins for DevOps: Jenkins Configuration for DevOps
- Jenkins for DevOps: Automated Testing and Advanced Jobs Using Jenkins
- SaltStack for DevOps: Working with SaltStack Components
- SaltStack for DevOps: Configuration Management with SaltStack

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Course and Module Overview

Module 6
DevOps and Azure

- AZ-400:Designing and Implementing Microsoft DevOps Solutions

Module 7
DevOps Lead

- Best Practices for DevOps Implementation
- DevOps Cloud Automation: AWS DevOps Tools
- DevOps Cloud Automation: Advanced AWS Pipelines and DevOps using Azure
- DevOps Cloud Automation: DevOps with Google Cloud Platform
- DevOps Automation: Configuration Management
- DevOps Automation: Delivery Mechanisms
- CI/CD Implementation for DevOps
- DevOps with Docker: Container Management
- DevOps with Docker: Implementing DevOps using Docker
- DevOps with Docker: Management in the Cloud
- DevOps Continuous Testing: Testing Approaches
- DevOps Continuous Testing: Testing Methodologies

Module 8
DevOps Engineer

- Scaling DevOps: Pipelines at Scale
- Scaling DevOps: Infrastructure at Scale
- Enterprise DevOps with Docker
- DevOps Continuous Feedback: Implementing Continuous Feedback
- DevOps Continuous Feedback: Loop Tools
- DevOps Security Considerations: Securing DevOps Pipeline
- DevOps Security Considerations: DevSecOps Principles

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Content Expert and Lecturer

Amelia de Jager

Amelia de Jager is a Specialist Trainer at Impactful Specialist Solutions and an accomplished programmer who uses her skills to contribute to the exciting technological advances that happen every day. Certified in Microsoft and Oracle, she enjoys all cloud technologies, particularly Azure, and has been an MCT since 2005.
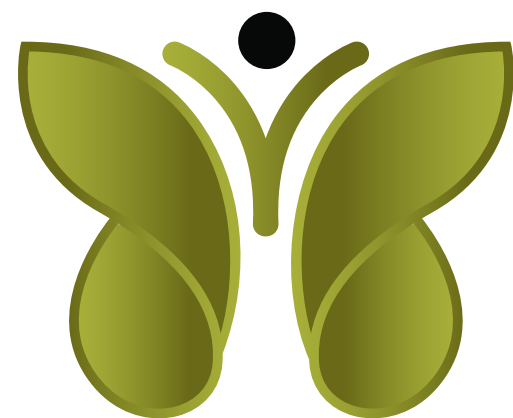
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DigitalCampus | LRMG

Igniting People. Igniting Growth.

DigitalCampus is an online education platform owned by LRMG (Pty) Ltd. It was established to provide university and education institution certified short courses to the African market.

LRMG has a certified AAA+ rating and is a Level 1 Contributor to B-BBEE as per the South African DTI's gazetted Codes of Good Practice. LRMG has a 25-year global track record for creating profit through people and their processes. We service clients in 18 African countries.

We understand that studying can be daunting. But it doesn't have to mean time out of the office, tedious travel to a campus, or fitting in with the University's schedule. DigitalCampus brings the campus experience online. Our dedicated course leaders facilitate your journey and you receive all the support you need to successfully complete the course. With expert content designed to deliver individual and business competence in collaborative and engaging blended learning experiences, you can take the all-important step towards that new role.

We make it simple to access the skills you need.

Our mission at DigitalCampus is to help you reimagine your personal and professional potential and transform into the shape you need to fly. Impactful Specialist Solutions in wholly owned by LRMG and provides all the Subject Matter Expert facilitation on DigitalCampus's IT courses and certifications.

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