





AUSTRALIAN
INSTITUTE
OF ICT™

Cloud Computing Certified Professional

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The Department of Jobs, Precincts and Regions (DJPR) is focused on growing Victoria's economy and ensuring it benefits all Victorians by creating more jobs for more people, building thriving places and regions and nurturing inclusive communities.

As part of the Digital Skills and Jobs Program (DSJP), The Australian Institute of ICT (AICT) offers the Cloud Computing Certified Professional 12-week training course to help you develop in-demand skills, positioning you for a rewarding career in Cloud Computing.

Cloud computing skills continue to grow in demand, as more organisations leverage cloud-based services to drive digital transformation. We will help you meet this demand covering not only the core concepts but also introduce you to three leading cloud service providers – Amazon Web Services (AWS), Microsoft and Google.

In our tailor-made program you will have access to our dedicated mentors – experts in the industry who will guide you through your course content and connect you with the latest resources, tools and communities.

Join us for the next step in your Cloud Computing journey.



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27%

Annual growth of Cloud Engineer roles in 2020
(LinkedIn Emerging Jobs Report 2020)



Up to 60%

of organisations will use external cloud providers by 2022,
doubling since 2018

(Gartner Press Release November 13, 2019)

The average salary for a Cloud Solution Architect in Australia is AU\$142,027



(Average Cloud Solutions Architect Salary in Australia, Payscale.com)

LAUNCH YOUR CAREER IN CLOUD COMPUTING

The Cloud Computing Certified Professional course will provide fundamental skills in the leading cloud operating platforms AWS, Microsoft and Google, who between them command nearly 60% of the global market for Cloud Computing services.

Course content covers Cloud Computing fundamentals, business principles of cloud environments, management and technical operations, governance, risk, compliance, security, cloud architecture, leading service providers, web services and APIs.

As you progress through the course, you will be able to apply your learning through hands-on labs to simulate a real-world experience allowing you to test some of the most widely used platforms.

If you're looking to start a rewarding career in the world of Cloud Computing, gain fundamental knowledge and skills for the leading cloud platforms with the Cloud Computing Certified Professional course.



Course duration
12-weeks training course



Mode
Online



Certifications
1

The benefits of completing the Cloud Computing Certified Professional Course:

Flexible study – make your own experience

- You will be invited to regular webinars and Q&A sessions where you will have the opportunity to ask your mentor any questions you might have. You can move through the course content at your own pace and access the learning platform for up to 12 months

Multi-platform learning environments

- Cloud labs to enable you to get hands-on practice in a provisioned environment in AWS, Azure and Google Cloud. Each lab includes challenges with step-by-step instructions and access to pre-configured cloud environments
- Access a variety of tailored learning experiences, such as video content, quizzes, live labs, expert led webinars, networking and research

Mentorship with industry experts

- Connect with our carefully selected group of experts in the field, whose role is to mentor you through your course content and help you connect with the online communities



Globally recognised certifications

- Gain fundamental skills for the leading cloud platforms and earn the Cloud Essentials+ certification from CompTIA, highly respected by employers
- Receive digital badges for your non-certification topics, which will also get you noticed on your employment journey

What you will learn

- Introduction to Cloud Computing, foundations for cloud architecture, security in the cloud and core concepts on how to secure and architect leading cloud platforms such as AWS, Microsoft Azure and Google Cloud
- Get started with AWS Cloud including Core Services, navigating the AWS Management Console, introduction to AWS cloud security and more
- Learn the fundamentals of Microsoft Azure Fundamentals including concepts, services, network security, compliance, data storage and more
- Understand the Google Cloud Fundamentals including core infrastructure, core services, scaling, automation and more
- Additional content including Big Data and Machine Learning Fundamentals

Career Opportunities

Cloud Engineer

Cloud engineers have expertise in planning, designing, and maintaining cloud-based systems. Such professionals assess a company's current IT infrastructure and ways to safely migrate their data to the cloud. Their profession can be broken down into three roles: a solutions architect (designing cloud-based programs and infrastructure), a cloud developer (developing cloud-based applications), and SysOps engineer (managing developed applications). Typical job tasks may include developing, deploying, and debugging cloud-based applications; monitoring cloud systems; and working with other IT experts to integrate/migrate existing, on-premise structures to a cloud-based environment.

Software Architect

Software architects develop customised software solutions for individual clients or businesses. Their process typically involves assessing the end-user's needs, budget, and industry standards – creating efficient, cost-effective programs to serve their objectives. Common projects may include user interfaces, desktop applications, web services, and databases. These professionals generally work within organisations who develop software for other companies. They are required to stay up-to-date with the latest tools and technology trends, applying these new practices where possible.



Course Structure

The Cloud Computing Certified Professional course is made up of the CompTIA Cloud Essentials+ certification provided through CompTIA. This course is comprised of numerous topics outlined below.

Introduction to Cloud Computing and Cloud Essentials+

This course will cover topics across all objectives on the CompTIA Cloud Essentials+ exam, including Cloud concepts, Management and Technical Operations, Governance, Risk, Compliance and Security for the Cloud and Business Principles of Cloud Environments.

- Fundamentals of Cloud Computing, Cloud Architecture and Management Principles in a Cloud Environment
- Cloud Concepts, Business Principles, Management, Technical Operations, Governance, Risk, Compliance, Security and Maintenance in Cloud Computing
- Configuration and Deployment for the Cloud, Fundamental Virtualization and Cloud Troubleshooting Scenarios

Getting Started AWS Cloud

This course will introduce you to the AWS services and solutions, including hands-on experience. You will learn how core services work across the AWS Cloud, essential security concepts, how AWS pricing works and more:

- Understanding AWS Core Services, Cloud Concepts and AWS Adoption of the Cloud
- AWS Cloud Security, Identity and Access Management
- AWS Architecture for Reliability and Performance
- Deploying a Static Site on AWS

Learn about Microsoft Azure

With this online course, you will apply your foundational knowledge of cloud services and how those services are provided with Microsoft Azure. You will gain knowledge of Azure services, Azure workloads, security and privacy in Azure, as well as pricing and support.

- Azure Concepts, Services, Core Solutions, Store and Management Tools
- Azure Security and Network Security Features
- Azure Identity, Governance, Privacy and Compliance Features
- Azure Cost Management and Service Level Agreements

Understand the Google Cloud Fundamentals

This course will provide interactive modules, demos and labs to allow you to explore and deploy solutions elements, including infrastructure components such as networks, systems and application services on Google Cloud. Enjoy the hands-on experience with Google's feature, Qwiklabs, that will allow you to showcase your skills to potential employers.

- Google Cloud Platform Fundamentals and Core Infrastructure
- Google Cloud Scaling and Autoscaling
- Cloud Marketplace, Compute Engine, Cloud Storage and Cloud SQL



Cloud Computing Certified Professional

- Cloud Architect, Kubernetes Engine, App Engine, BigQuery, Deployment Manager and Stackdriver

Other Course Inclusions

- Take your career to the next level with skill assessments to skill up in the job you want
- Job ready personal development skills
- Over 45 hours of cloud labs to enable you to get hands-on practice in a provisioned environment in AWS, Microsoft Azure and Google Cloud
- Challenges with step-by-step instructions and access to pre-configured cloud environments

Communication

As a student, you can quickly and easily connect with your peers and certified instructors through online messaging and through our learning management system (LMS). There will be opportunities to do so either live, at set times in the day or to submit queries at any time which will be responded to on the same business day.

Enrolment Info

The course requires no prerequisites; even if you are brand new to IT, with the right attitude and appetite to learn, you will be able to join the course. If you are interested in this course, get in touch with your mentor at the Digital Skills and Jobs Program to enrol.



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Why AIICT



100%
online training



**Globally recognised
certifications**

Powered by DDLS

DDLS is Australia's largest provider of corporate IT and process training, with the widest portfolio of strategic partners and courses in Australia. For more than 30 years, DDLS has been an award-winning non-accredited training provider, spanning across Australia and into Asia.

As a division of DDLS, AIICT aims to provide quality, self-paced, and nationally accredited ICT training, leveraging the experience, skills and knowledge of DDLS. DDLS partners with world-class companies to help organisations and individuals in the IT industry remain up to date with new processes, technology and platforms to reduce risk and enable efficient business practices. Some of DDLS' partners include:

- Microsoft
- Google
- AWS
- Cisco
- CompTIA
- Citrix, among many others.

Industry Partnerships



"Almost every modern tech company is paying to outsource its storage and computing services, either all or in part, to the cloud. This setup allows startups to emerge with very little overhead, and huge companies to run more efficiently by avoiding investment in physical hardware. It has spawned a generation of companies that plan to use the cloud to offer everything as a service."

Molly Wood, Ideas contributor at WIRED and the Host and Senior Editor of Marketplace Tech

As companies discuss the importance of data in their organizations, they'll need to hire the data, AI and cloud engineers to architect it. But there aren't enough engineers who have expertise in these technologies to do that. This 'super-power' skill is the ability to understand data, structured and unstructured... and pick the right approach to analyze it. Until the knowledge gap closes, we'll continue to see a shortage of these types of engineers - many companies will come up short on their promises of 'data-everywhere' today"

Haoyuan Li, Founder and CTO of Alluxio

"According to a 2019 Kentik report, 58% of businesses are already using a combination of Amazon Web Services (AWS), Microsoft Azure, and Google Cloud in their multicloud networks. A multicloud approach enables companies to assess the strengths and weaknesses of several vendors before committing for the longer term. Multicloud can also help organizations optimize costs and avoid vendor lock-in issues."

Deloitte, 2020 Technology Industry Outlook