



## Program Catalog Page: Applied Cloud Fundamentals: AWS, Azure, or GCP (CloudFund)

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### Program Overview

- **Program Main Code Name:** CloudFund
  - **Program Code:** CloudFund
  - **Program Length:** 16 Weeks (4 Months)
  - **Total Contact Hours:** 192 Hours
  - **Total Credit Hours:** 8.0 Credits
  - **Delivery Method:** In-person Live Instructor-Led, Virtual Live Instructor-Led, or 1-on-1 Personalized Mentorship
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### Admissions Requirements

- High school diploma or GED
- Minimum age of 18 years (Applicants under 18 require parental consent)
- Basic computer literacy
- Successful NVIT Admissions Interview
- Interest in cloud computing or IT infrastructure

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## Program Description

The **Applied Cloud Fundamentals: AWS, Azure, or GCP (CloudFund)** program builds critical foundational skills needed to work with the three leading cloud platforms: AWS, Azure, and Google Cloud. Students gain hands-on skills deploying core services, applying security best practices, monitoring cloud resources, and optimizing cloud costs.

Students will:

- Deploy compute, networking, storage, and serverless services on AWS, Azure, and GCP.
- Implement IAM and cloud security policies.
- Configure monitoring and cost optimization services.
- Prepare for industry certifications such as AWS Certified Cloud Practitioner, Microsoft AZ-900, and Google Associate Cloud Engineer.

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## Course Description

This course prepares individuals for entry-level roles such as:

- Cloud Support Associate
- Junior Cloud Engineer
- Cloud Operations Specialist
- IT Support Technician (Cloud-focused)

Students will:

- Build core cloud environments.

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- Monitor, secure, and optimize cloud-based solutions.
- Prepare for vendor-specific cloud certifications.

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### Occupations for Which Training Will Be Provided

- Cloud Support Associate
- Junior Cloud Engineer
- IT Help Desk (Cloud Services)
- Technical Cloud Support Specialist

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### Work Settings for Program Graduates

- Technology companies
- Cloud service providers
- IT consulting firms
- Government agencies migrating to the cloud
- Educational institutions and nonprofits

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## Instructional Components

Instructional Component	Hours
Live Lectures + Live Proctored Exams	49
Labs & Projects	80
On-the-Job Training (OJT) + Capstone Project	63
<b>Total Contact Hours</b>	<b>192</b>
<b>Total Credit Hours</b>	<b>8.0</b>

## Course Outline

Subject #	Subject Title	Lecture Hrs	Lab/Project Hrs	OJT + Capstone Hrs	Contact Hrs	Credit Hrs
CloudFund 101	Introduction to Cloud Computing	6	18	0	24	1.0
CloudFund 102	Compute & Storage Fundamentals	6	18	0	24	1.0
CloudFund 103	Networking & Load Balancing	6	18	0	24	1.0

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Subject #	Subject Title	Lecture Hrs	Lab/Project Hrs	OJT + Capstone Hrs	Contact Hrs	Credit Hrs
CloudFund 104	Identity, Security, and Governance	6	18	0	24	1.0
CloudFund 105	Serverless & Monitoring	6	18	0	24	1.0
CloudFund 106	Cloud Cost Optimization & Emerging Services	5	15	0	20	1.0
CloudFund 107	Exam Readiness & Real-World Scenarios	6	18	0	24	1.0
CloudFund 108	Capstone Project and On-the-Job Training	0	0	28	28	1.0

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## Subject Descriptions

### CloudFund 101 – Introduction to Cloud Computing

(Weeks 1–2 | Lecture 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Contact Hrs | 1.0 Semester Credit)

Students will:

- Understand cloud concepts and essential characteristics.
- Explore service models (IaaS, PaaS, SaaS) and deployment models (public, private, hybrid).
- Navigate AWS, Azure, and GCP portals and services.

Prerequisite: Basic computer literacy

Tools: AWS Management Console, Azure Portal, GCP Console

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### CloudFund 102 – Compute & Storage Fundamentals

(Weeks 3–4 | Lecture 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Contact Hrs | 1.0 Semester Credit)

Students will:

- Deploy virtual machines and serverless compute services.
- Set up scalable block and object storage solutions.
- Manage backups and disaster recovery options.

Prerequisite: CloudFund 101 – Introduction to Cloud Computing

Tools: EC2, Azure VMs, GCP Compute Engine, S3, Azure Blob, GCP Storage

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## **CloudFund 103 – Networking & Load Balancing**

(Weeks 5–6 | Lecture 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Contact Hrs | 1.0 Semester Credit)

Students will:

- Configure VPCs, subnets, firewalls, and VPNs.
- Deploy load balancers and configure network security.

Prerequisite: CloudFund 102 – Compute & Storage Fundamentals

Tools: AWS VPC, Azure VNet, GCP VPC, AWS ELB

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## **CloudFund 104 – Identity, Security, and Governance**

(Weeks 7–8 | Lecture 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Contact Hrs | 1.0 Semester Credit)

Students will:

- Implement identity and access management (IAM) policies.
- Apply governance frameworks and compliance strategies.

Prerequisite: CloudFund 103 – Networking & Load Balancing

Tools: AWS IAM, Azure Active Directory, GCP IAM

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## **CloudFund 105 – Serverless & Monitoring**

(Weeks 9–10 | Lecture 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Contact Hrs | 1.0 Semester Credit)

Students will:

- Build serverless applications and event-driven workflows.

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- Set up cloud monitoring, logging, and alerting services.

Prerequisite: CloudFund 104 – Identity, Security, and Governance

Tools: AWS Lambda, Azure Functions, GCP Cloud Functions, CloudWatch, Azure Monitor

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### **CloudFund 106 – Cloud Cost Optimization & Emerging Services**

(Weeks 11–12 | Lecture 5 Hrs / Lab 15 Hrs / Ext 0 Hrs | 20 Total Contact Hrs | 1.0 Semester Credit)

Students will:

- Monitor cloud spend and optimize resource usage.
- Explore emerging cloud services such as AI/ML APIs and IoT.

Prerequisite: CloudFund 105 – Serverless & Monitoring

Tools: AWS Cost Explorer, Azure Cost Management, GCP Billing Reports

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### **CloudFund 107 – Exam Readiness & Real-World Scenarios**

(Weeks 13–14 | Lecture 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Contact Hrs | 1.0 Semester Credit)

Students will:

- Review foundational cloud concepts.
- Prepare for AWS, Azure, and GCP certifications.
- Apply knowledge to hands-on, real-world scenarios.

Prerequisite: CloudFund 106 – Cloud Cost Optimization & Emerging Services

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## CloudFund 108 – Capstone Project and On-the-Job Training

(Weeks 15–16 | Lecture 0 Hrs / Lab 0 Hrs / OJT + Capstone 28 Hrs | 28 Total Contact Hrs | 1.0 Semester Credit)

Students will:

- Complete a cloud deployment project.
- Present documentation and operational plans.

Prerequisite: CloudFund 107 – Exam Readiness & Real-World Scenarios

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### Class Schedule

- **Day Students:** Monday and Wednesday, 9:30 AM – 12:30 PM
  - **Evening Students:** Thursday, 6:00 PM – 9:00 PM
  - **Virtual Mentorship Students:** 8–10 flexible hours per week
  - A 10-minute break will be taken every instructional hour for all in-person students.
  - Lunch break for day students is from 12:30 PM to 1:30 PM.
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### Dates School Will Be Closed

- New Year's Day
- Martin Luther King Day
- Presidents' Day
- Good Friday

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- Memorial Day
- Independence Day
- LBJ's Birthday
- Labor Day
- Veteran's Day
- Thanksgiving Day
- Day After Thanksgiving
- Christmas Eve
- Christmas Day
- Day After Christmas

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### Class Start Dates

- Classes for all tracks begin **May 26, 2025**
- New classes start approximately every 8 weeks
- Virtual Mentorship students have rolling admissions

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### Tuition and Fees

Fee Type	Cost
Registration Fee	\$50.00
Books & Supplies (estimated)	\$500.00

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Fee Type	Cost
Background Check (if applicable)	\$150.00
Tuition (In-person Live Instruction)	\$5,499.00
Tuition (Virtual Live Instruction)	\$4,199.00
Tuition (1-on-1 Virtual Mentorship)	\$6,999.00

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### Total Program Cost

- **In-person:** \$6,199.00
- **Virtual Live:** \$4,899.00
- **Virtual Mentorship:** \$7,699.00

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### Cost per Single Subject

#### Hourly Tuition Rate (Based on Total Program Cost Divided by 192 Contact Hours):

- In-Person: **\$32.28/hour**
- Virtual Live: **\$25.51/hour**
- Virtual Mentorship: **\$40.10/hour**

Each subject cost is calculated by multiplying contact hours × hourly tuition rate.

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Subject Code	Subject Title	Contact Hours	In-Person Cost	Virtual Live Cost	Virtual Mentorship Cost
CloudFund 101	Introduction to Cloud Computing	24	\$774.72	\$612.24	\$962.40
CloudFund 102	Compute & Storage Fundamentals	24	\$774.72	\$612.24	\$962.40
CloudFund 103	Networking & Load Balancing	24	\$774.72	\$612.24	\$962.40
CloudFund 104	Identity, Security, and Governance	24	\$774.72	\$612.24	\$962.40
CloudFund 105	Serverless & Monitoring	24	\$774.72	\$612.24	\$962.40
CloudFund 106	Cloud Cost Optimization & Emerging Services	20	\$645.60	\$510.20	\$802.00
CloudFund 107	Exam Readiness & Real-World Scenarios	24	\$774.72	\$612.24	\$962.40
CloudFund 108	Capstone Project and On-the-Job Training	28	\$903.84	\$714.28	\$1,122.80

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### **Important Note**

Registration Fee, Books and Supplies, and Background Check are already included in the total program cost calculations but apply separately if students enroll in individual subjects only.

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