

# APPLIED CLOUD AND DEVOPS ENGINEERING

## CI/CD, KUBERNETES, TERRAFORM & CLOUD AUTOMATION

### AI Era Job Ready Skills

Applied Cloud and DevOps Engineering is a 28-week intensive program that prepares students to build and manage automated CI/CD pipelines, container orchestration systems, and infrastructure-as-code environments. Students master Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, and cloud-native monitoring tools across AWS, Azure, and GCP. Graduates are prepared for DevOps Engineer, SRE, and Platform Engineering roles.

*"Automate, scale, and secure modern software delivery pipelines"*

**28 WEEKS**

DURATION

**336**

CONTACT HOURS

**13.3**

CREDIT HOURS

**\$8,500.00**

TOTAL PROGRAM COST

**4+**

CERTIFICATIONS

**TWC Licensed**

#S6776

**WIOA Approved**

Funding Available

**Monthly Intakes**

Enroll Anytime

**DURATION: 28 Weeks**

**TUITION: \$8,500.00**

**NEXT COHORT: Monthly Intakes**

## PROGRAM HIGHLIGHTS

- ✓ Live Instructor-Led Training
- ✓ Hands-on Labs & Real-World Projects
- ✓ Career Support Services
- ✓ Industry Certification Prep (4 Vouchers)
- ✓ WIOA Funding Available
- ✓ TWC Licensed (#S6776)

## CAREER PATHWAYS

DevOps Engineer

Site Reliability Engineer

Platform Engineer

Cloud Infrastructure Engineer

Release Manager

Automation Engineer

## WORK ENVIRONMENTS

Software Companies

Financial Services

E-Commerce

Healthcare IT

Government Tech

Managed Service Providers

## LATEST TOOLS & TECHNOLOGIES (2025–2026)

Docker

Kubernetes

Helm

Terraform

Pulumi

GitHub Actions

Jenkins

ArgoCD

Prometheus

Grafana

Datadog

## ADMISSIONS REQUIREMENTS

- High school diploma or GED required
- Basic Linux command line experience
- Recommended: Networking fundamentals
- Background check required prior to enrollment

## PROGRAM OUTCOMES & EARNING POTENTIAL

### ✓ Job Placement Support

Career coaching & resume prep

### ✓ Real-World Projects

Live client project experience

### ✓ Industry Certifications

4+ globally recognized certs

### ✓ Flexible Schedule

6 cohort options per week

### ✓ WIOA Eligible

100% tuition coverage available

### ✓ TWC Licensed

Texas Workforce Commission #S6776

• TWC Licensed #S6776 • WIOA Approved • Monthly Intakes • 100% Hands-On • Job Placement Support •

## CLOUD & LINUX FOUNDATIONS TRACK

### CDOPS 101 Introduction to Cloud Platforms

Weeks 1–2 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Hr...

- Configure foundational cloud services across AWS, Azure, ...
- Deploy compute instances, storage buckets, and basic netw...
- Manage IAM roles, policies, and security groups.

*Tools: AWS Educate, Azure Portal, GCP Console*

### CDOPS 102 Infrastructure as Code (IaC) Foundat...

Weeks 3–4 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Hr...

- Write infrastructure code using Terraform and Ansible.
- Automate deployments of cloud resources.
- Apply GitOps for infrastructure management.

*Tools: Terraform, Terraform Cloud, Git, Ansible*

## CI/CD & AUTOMATION TRACK

### CDOPS 103 CI/CD and DevOps Automation

Weeks 5–6 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Hr...

- Build AI-assisted continuous integration (CI) pipelines.
- Automate deployments with continuous delivery (CD) tools.
- Integrate GitHub Actions, Jenkins, and GitLab CI/CD.

*Tools: GitHub Actions, GitLab CI/CD, GitHub Copilot*

### CDOPS 104 Containers, Kubernetes & Orchestra...

Weeks 7–8 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Hr...

- Containerize applications using Docker.
- Deploy and manage Kubernetes clusters.
- Implement service discovery, ingress controllers, and scaling.

*Tools: Docker, Kubernetes, Minikube, Helm*

### CDOPS 105 DevSecOps and Observability

Weeks 9–10 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Hrs | 1.0 Credit Hour) Students will:

- Secure DevOps pipelines using best practices.
- Implement vulnerability scanning and secrets management.
- Build observability stacks for monitoring and alerting.

*Tools: Prometheus, Grafana, Datadog, AI-driven Observability*

## CURRICULUM HIGHLIGHTS

### ✓ Hands-On Labs

Every module includes real cloud lab exercises

### ✓ Project-Based

Build portfolio-ready projects each week

### ✓ Industry Tools

Learn with the same tools used by top employees

### ✓ Certification Prep

Included exam vouchers for 4+ certifications

### ✓ Live Instruction

Expert-led sessions, online and in-person

### ✓ Career Support

Resume, LinkedIn, and interview coaching

## CONTAINER & ORCHESTRATION TRACK

### CDOPS 106 Multi-Cloud and Hybrid Deployments

Weeks 11–12 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total ...

- Architect and deploy workloads across multiple cloud providers.
- Implement hybrid cloud models connecting on-premises to cloud.
- Configure cross-cloud networking and VPNs.

Tools: AWS VPC, Azure Virtual Network, GCP VPC, Kubernetes Federation

### CDOPS 107 GitOps and Advanced Kubernetes Workflows

Weeks 13–15 | Lec 9 Hrs / Lab 27 Hrs / Ext 0 Hrs | 36 Total ...

- Implement GitOps workflows for automated deployments.
- Manage complex microservices across Kubernetes clusters.
- Build Helm charts and customize templates for scalable deployments.

Tools: ArgoCD, FluxCD, Helm, Kustomize, GitHub

## SECURITY & CAPSTONE TRACK

### CDOPS 108 Monitoring, Logging, and SRE Operations

Weeks 16–18 | Lec 9 Hrs / Lab 27 Hrs / Ext 0 Hrs | 36 Total ...

- Implement monitoring and alerting systems for cloud applications.
- Configure centralized logging and distributed tracing.
- Apply site reliability engineering (SRE) principles.

Tools: Prometheus, Grafana, Loki, Elastic Stack, Jaeger

### CDOPS 109 Cloud Cost Optimization and FinOps

Weeks 19–21 | Lec 9 Hrs / Lab 27 Hrs / Ext 0 Hrs | 36 Total ...

- Analyze cloud billing and usage reports.
- Optimize resource consumption across cloud services.
- Implement budgeting, forecasting, and chargeback models.

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

### CDOPS 110 Capstone Project and On-the-Job Training

Weeks 22–28 | Lec 0 Hrs / Lab 0 Hrs / OJT + Capstone 84 Hrs | 84 Total Hrs | 3.6 Credit Hours

- Complete a real-world Cloud and DevOps engineering project.
- Design, deploy, monitor, and optimize cloud infrastructure and pipelines.
- Present final deliverables including architecture diagrams, deployment artifacts,

#### WIOA APPROVED PROGRAM

## Zero-Cost AI & Cloud Training JOB-READY SKILLS FOR THE AI ERA

100% Tuition Coverage for WIOA-eligible residents of Texas & Louisiana.

(More states coming soon!)

Not WIOA eligible? Ask about flexible 7–36 months financing or one-time payment discounts.

TWC Licensed (#S6776)

Live (Online/In-Person)

Real-World Projects

Industry Certified



**John Enoh (MSc)**  
AI GOVERNANCE LEAD & CHIEF AI ARCHITECT

- Authority: Microsoft MVP | Engineering Hiring Manager
- Global Footprint: Microsoft & IBM (Principal Architect)
- Elite Education: MIT (AI Modeling), Stanford (Strategy)



**Dr. Paul Idowu (PhD)**  
RESEARCH AUTHORITY & FACULTY LEAD

- Authority: PhD in AI Systems | 390+ Google Scholar Citations
- Elite Academic Pedigree: PhD Pattern Recognition & AI
- Technical Domain: NLP for 130+ African Languages



**Devonte Sykes (MSc)**  
DIGITAL TRANSFORMATION

- Authority: Senior Cloud Architect @ Microsoft
- Elite Academic Pedigree: MSc Information Technology (UCF)
- Technical Domain: Azure IaaS/PaaS, Cloud Migration



**Abiodun Olatunji, MBA**  
ENTERPRISE STRATEGIST & CLOUD AUTHORITY

- Authority: Senior Specialist, Cloud & AI @ Microsoft
- Elite Academic Pedigree: MSc Information Systems, MBA
- Technical Domain: Azure Synapse, Databricks, Big Data



**Taiwo Olatunde (MSc)**  
DATA ARCHITECTURE & ENGINEERING LEAD

- Authority: Microsoft Fabric Expert | Technical Lead
- Elite Academic Pedigree: MSc Business Analytics (UNT)
- Technical Domain: Microsoft Fabric, ETL/ELT Pipelines



**Syed Ishaq Ali, MBA**  
BI STRATEGIST & FINANCIAL ANALYTICS

- Authority: 15-Year Financial Sector Veteran | PMP®
- Global Footprint: Bank of Montreal (BMO), Scotiabank
- Technical Domain: Financial Forecasting, SQL, Power BI



**Vaishali Singh**  
AI & MACHINE LEARNING SPECIALIST

- Authority: Lead AI Engineer
- Technical Domain: Deep Learning, Computer Vision
- Global Footprint: Fortune 500 Tech Companies



**Dr. Ibrahim Olokodana**  
DATA SCIENCE & ANALYTICS EXPERT

- Authority: PhD in Data Science
- Technical Domain: Predictive Modeling, Statistical Analysis
- Elite Academic Pedigree: Advanced Research in ML



**Abdullahi Olapojoye**  
CLOUD INFRASTRUCTURE ARCHITECT

- Authority: Senior Cloud Engineer
- Technical Domain: AWS, GCP, Kubernetes, Terraform
- Global Footprint: Enterprise Cloud Migrations



**Mackay Ogunleye**  
CYBERSECURITY & COMPLIANCE LEAD

- Authority: CISSP, CISM Certified Expert
- Technical Domain: Network Security, Threat Intelligence
- Global Footprint: Global Financial Institutions



**Sai Sudha Malluru**  
SOFTWARE ENGINEERING & DEVOPS

- Authority: Principal Software Engineer
- Technical Domain: CI/CD, Microservices, Agile
- Global Footprint: Leading Tech Startups



**Solomon Adegboye**  
FULL STACK DEVELOPMENT LEAD

- Authority: Senior Full Stack Developer
- Technical Domain: React, Node.js, System Design
- Global Footprint: E-commerce & SaaS Platforms

## WORK WITH NVIT BUILDERS

“ **Real-World Projects: This training is 100% hands-on. You will work directly with NVIT builders** who support clients across North America. Gain experience on live projects, solving actual business challenges — not just theoretical exercises.

## CERTIFICATIONS & VOUCHERS

### NVIT Certificate + 4 Industry Certifications (Vouchers Included)

Graduates receive the NVIT Certificate of Completion plus Exam Vouchers to write and pass globally recognized certifications from this list:

- AWS Certified DevOps Engineer – Professional
- AWS Certified Solutions Architect – Associate
- Microsoft Certified: DevOps Engineer Expert (AZ-400)
- Google Professional Cloud DevOps Engineer
- CKA: Certified Kubernetes Administrator
- HashiCorp Certified: Terraform Associate
- CompTIA Cloud+
- Red Hat Certified Engineer (RHCE)

## STANDALONE FEE BREAKDOWN

1. Instructional Tuition	<b>\$7,206.00</b>	
2. Registration Fee	<b>\$50.00</b>	<i>(One-time, non-refundable)</i>
3. Books & Supplies	<b>\$500.00</b>	<i>(Cloud labs, software, e-books)</i>
4. Background Check	<b>\$150.00</b>	<i>(Security clearance processing)</i>
5. Professional Exam Vouchers	<b>\$594.00</b>	<i>(4 Vouchers Included)</i>
<b>TOTAL PROGRAM INVESTMENT</b>	<b>\$8,500.00</b>	

## 2026–2027 COHORT SCHEDULE

Cohort Name	Days	Time	Format
Alpha / Nova / Forge	Mon – Wed	9:30 AM – 12:30 PM	Morning Session
Helix / Array / Delta	Mon – Wed	1:30 PM – 4:30 PM	Afternoon Session
Photon / Pipeline / Fabric	Mon – Wed	6:00 PM – 9:00 PM	Evening Session
Beta / Snow / Grid	Thu – Sat	9:00 AM – 12:30 PM	Weekend Morning
Cloud / Lambda / Sigma	Thu – Sat	1:30 PM – 4:30 PM	Weekend Afternoon
Nebula / Data / Voyager	Thu – Sat	6:00 PM – 9:00 PM	Weekend Evening

## ADMISSIONS & NEXT STEPS

Ready to Apply? Contact our admissions team to secure your spot in the next cohort.  
[learn.nvit.tech](http://learn.nvit.tech) | [www.nvit.tech](http://www.nvit.tech) | Mobile: +1 (214) 764-7360

[info@nvit.tech](mailto:info@nvit.tech)  
**+1 (214) 407-7229**