# G.A.S Institution - DevOps Badge-Based Pathway

📘 Overview  
  
This pathway introduces learners to Microsoft Azure and DevOps practices using the SC-900 and AZ-900 learning tracks. The program prepares students to build and automate modern infrastructure solutions with strong security practices.

## 🧠 Learning Track 1: AZ-900 – Azure Fundamentals

⏳ Duration: 6 weeks  
  
📚 Modules & Badges:  
- Week 1: Cloud concepts → Badge: Cloud Concepts  
- Week 2: Core Azure services → Badge: Core Azure Services  
- Week 3: Azure tools and management → Badge: Azure Tools and Solutions  
- Week 4: Network and cloud security basics → Badge: Azure Security and Governance  
- Week 5: Compliance and governance → Badge: Identity and Compliance  
- Week 6: Mini project – Deploy a basic web app on Azure

## 🔐 Learning Track 2: SC-900 – Security, Compliance & Identity Fundamentals

⏳ Duration: 6 weeks  
  
📚 Modules & Badges:  
- Week 7: Security and compliance overview → Badge: Security Fundamentals  
- Week 8: Identity and access management → Badge: Microsoft Identity Solutions  
- Week 9: Microsoft security tools → Badge: Microsoft Security Tools  
- Week 10: Compliance management → Badge: Compliance and Risk Management  
- Week 11-12: Capstone Project – Secure deployment pipeline and policy enforcement

## 🌟 Next Steps: Associate Certifications

Upon completion, students are ready to prepare for the following certifications:  
- Microsoft Certified: Azure Administrator Associate (AZ-104)  
- Microsoft Certified: Azure Developer Associate (AZ-204)  
- Microsoft Certified: DevOps Engineer Expert (AZ-400)  
- Microsoft Certified: Azure Security Engineer Associate (AZ-500)

## 📚 Learning Outcome

- Earn 10–12 Microsoft Learn badges  
- Understand cloud security, automation, and infrastructure deployment  
- Be well-equipped for future associate-level DevOps and security certifications