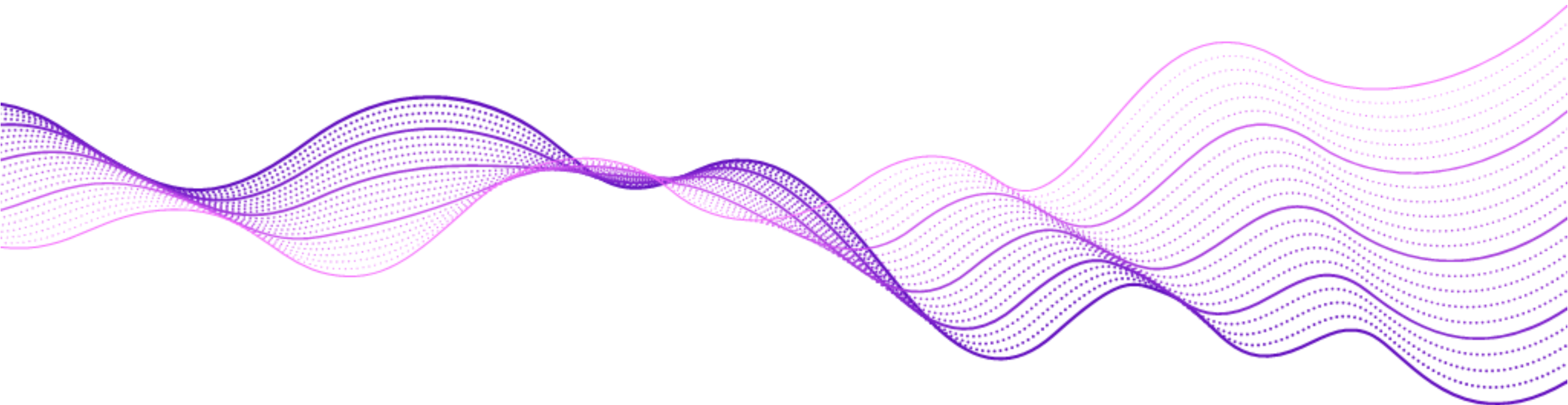
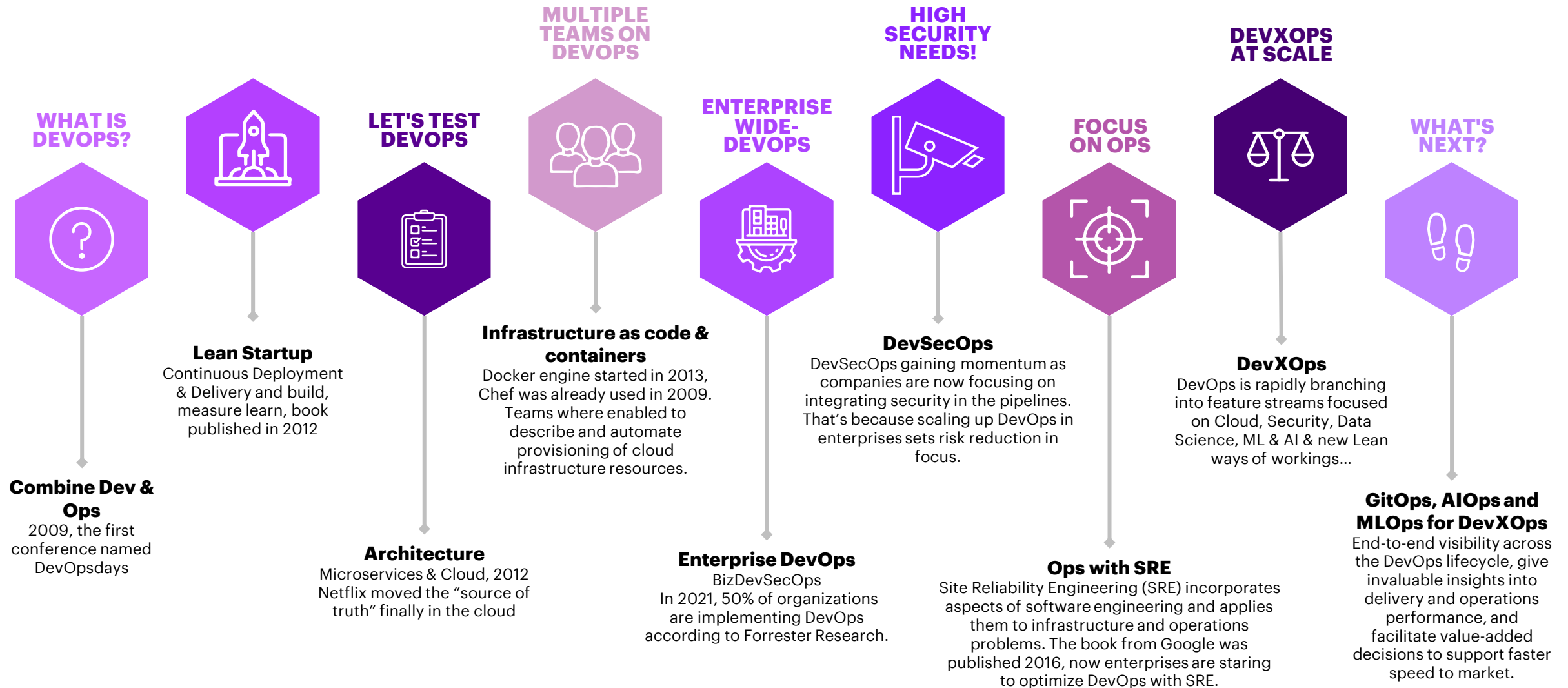


DevOps Career Advisory



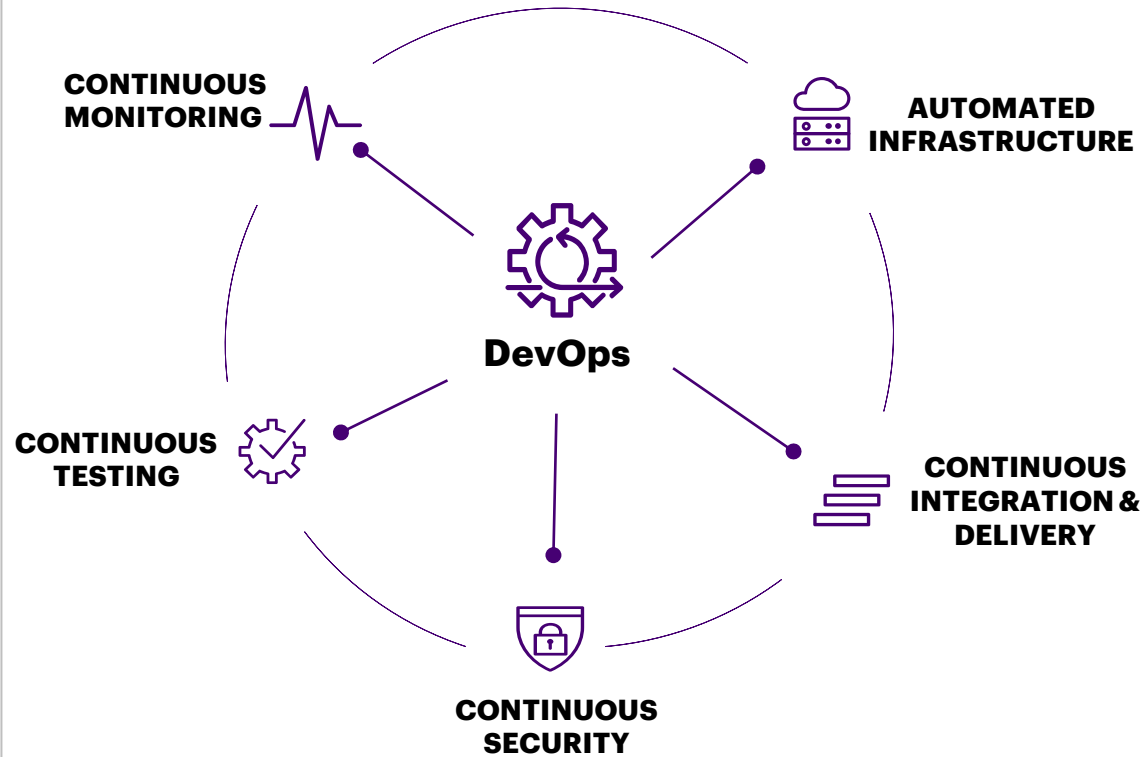
JOURNEY OF DEVOPS



HOW DEFINITION OF DEVOPS IS CHANGING ?

DevOps is rapidly branching into feature streams focused on **Cloud, Security, Data Science, Machine Learning, Artificial Intelligence & new Lean ways of workings...**

DEVOPS AS WE KNOW TODAY



DEVOPS IN FUTURE

Disruption by Ways of Working



Site Reliability Engineering



Scaled Agile



Lean Governance

Disruption by Platform

VSDS



GitLab



GitHub



kubernetes



VMware Tanzu



serverless



OPENSIFT

Disruption in Tooling



Terraform



ANSIBLE



Prometheus



ATLASSIAN



CloudBees

Disruption by Cloud Platforms



Azure DevOps



amazon web services



Google Cloud



IBM DevOps

*Not exhaustive

HOW HAVE WE RESPONDED TO THE EMERGING TRENDS IN DEVOPS?

DevOps use cases are rapidly branching into feature streams focused on Security, Data, AI, Networking, and more...
DevOps must be multi-dimensional to cater to the needs of Next Generation Technologies...



WHAT IMPACT DOES NEW DEVXOPS HAVE ON SKILL PROFILES OF DEVOPS PROFESSIONALS?

DevOps for Future requires **E-shaped skills**. Our career model recognizes the need for **proactive approach to build next generation DevOps skills** to stay ahead of the talent curve.

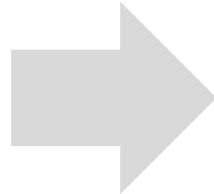
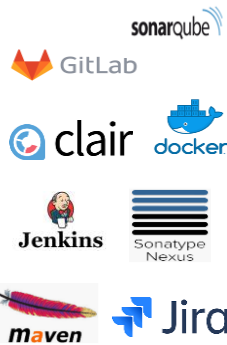
One Dimensional **T**echnology Mind-set

FUNCTIONAL SKILL

PROBLEM SOLVING | COMMUNICATION | DESIGN THINKING | COLLABORATION | CUSTOMER CENTRICITY | INTERPERSONAL SKILLS

TECHNOLOGY SPECIALIST

TOOLING OR SCRIPTING for CI/CD



Multi-skill **T**echnology Mind-set and DevOps Architects

BROAD FUNCTIONAL SKILLS

CUSTOMER CENTRICITY

DESIGN THINKING

SYSTEM THINKING

VALUE STREAM MAPPING

INTERPERSONAL SKILLS

STAKEHOLDER MANAGEMENT

EMOTIONAL INTELLIGENCE

COLLABORATION & COORDINATION

CLOUD NATIVE



Cloud Native DevOps Services



Container Services



Security



SOFTWARE ENGINEERING

TOOLING



DATAOPS



API & MICRO SERVICES



AGILE, ITSM & SRE



AUTOMATION

CI/CD AUTOMATION



TEST AUTOMATION



MONITORING & ANALYTICS



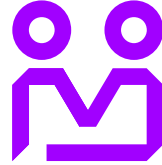
CLOUD AUTOMATION



What Learning Platforms and opportunities are available to become Full Stack DevOps Engineers and DevOps Architects?



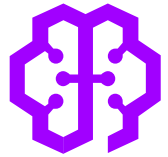
myCompetency
(Organization +
Capability)



myCompetency
for Executives
(Organization +
Capability)



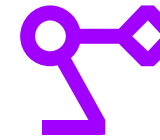
myLearning
(Organization +
Capability)



DevOps Academy
Trainings
(Capability)



Advanced Academy
Trainings
(Capability)



Automation
Architect
(AA&ME)



Partner Certification
Programs
(Organization)



Master Technology
Architect Program
(Organization)



Technology
Quotient
(Organization)

Assessment Path to DevOps proficiency



Certifications linked to myCompetency

P3

Must have any ONE certification

Amazon Web Services (AWS) Certified Developer - Associate

Amazon Web Services (AWS) Certified Solutions Architect - Associate

Amazon Web Services (AWS) Certified SysOps Administrator - Associate

Google Cloud Certified - Associate Cloud Engineer

Technology Architect(TA)

Data Architect(DA)

P4

Scenario 1

Must have any ONE certification

Amazon Web Services (AWS) Certified Advanced Networking - Specialty

Amazon Web Services (AWS) Certified Security - Specialty

Amazon Web Services (AWS) Certified Database - Specialty

Amazon Web Services (AWS) Certified Machine Learning - Specialty

Google Cloud Certified - Professional Data Engineer

Google Cloud Certified - Professional Cloud Network Engineer

Google Cloud Certified - Professional Cloud Architect

Google Cloud Certified - Professional Cloud Security Engineer

Scenario 2

Must have any TWO certification

Amazon Web Services (AWS) Certified Developer - Associate

Amazon Web Services (AWS) Certified Solutions Architect - Associate

Amazon Web Services (AWS) Certified SysOps Administrator - Associate

Google Cloud Certified - Associate Cloud Engineer

Technology Architect(TA)

Data Architect(DA)

AND

Must have any ONE certification

Certified Jenkins Engineer

Certified CloudBees Jenkins Engineer

Red Hat Certified Specialist in Ansible Automation

Docker Certified Associate (DCA)

Certified Kubernetes Administrator (CKA)

Certified Kubernetes Application Developer (CKAD)

Certified Kubernetes Security Specialist (CKS)

Red Hat Certified Specialist in OpenShift Administration

Certified OpenStack Administrator (COA)

Red Hat Certified System Administrator in Red Hat OpenStack

HashiCorp Certified: Terraform Associate

HashiCorp Certified: Vault Associate

HashiCorp Certified: Consul Associate

HashiCorp Certified: Vault Operations Professional

GitLab Certified Associate

GitLab Certified Specialist: CI/CD

GitLab Certified Specialist: Project Management

GitLab Certified Specialist: Security



Certifications linked to myCompetency

P4 Master

Scenario 1

Must have any ONE certification

Senior Technology Architect(STA)
Senior Data Architect(SDA)
Master Technology Architect(MTA)
Master Data Architect(MDA)
Senior Technology Architect(STA)
Senior Data Architect(SDA)
Master Technology Architect(MTA)
Master Data Architect(MDA)

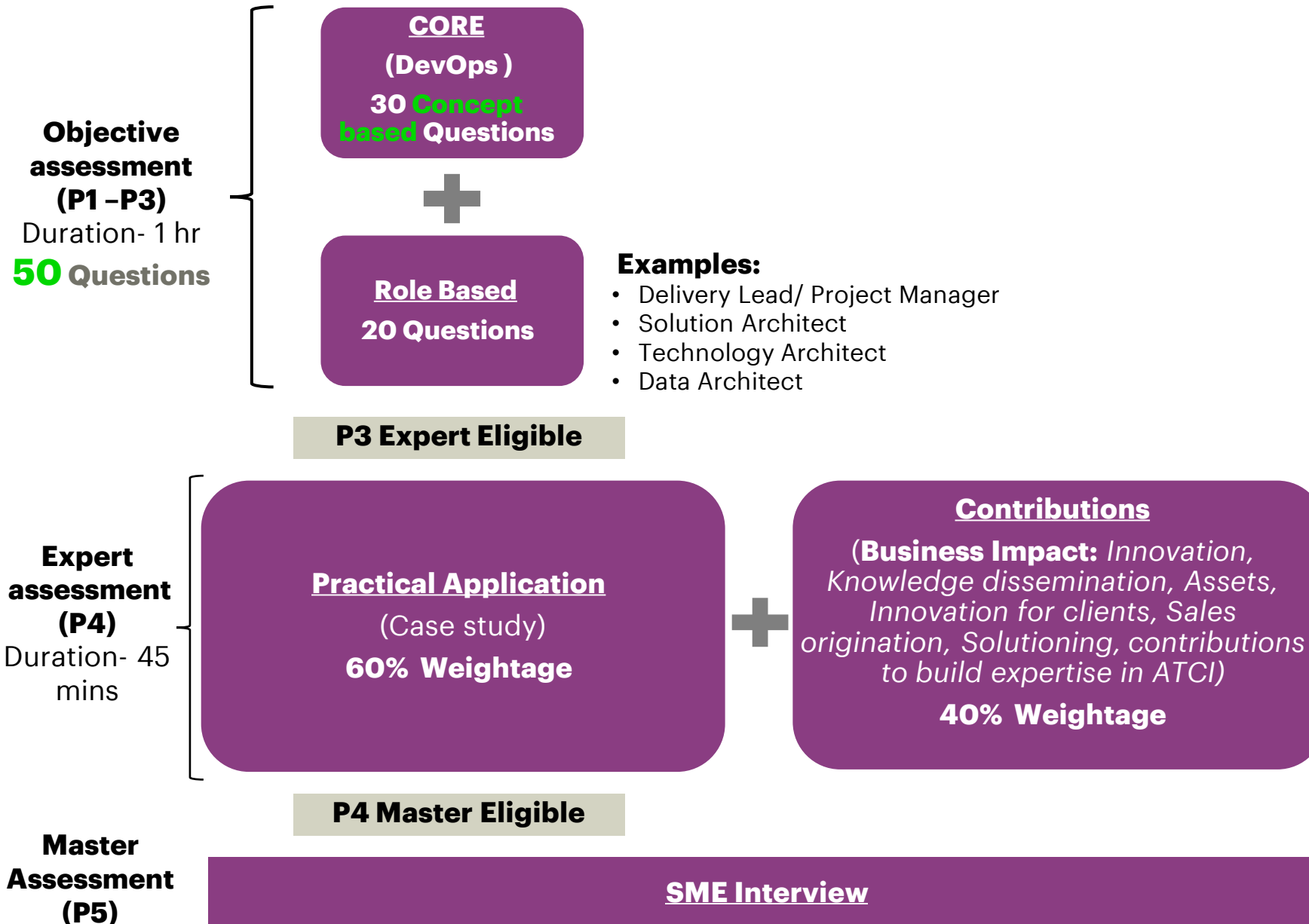
OR

Scenario 2

Must have any TWO certifications

Amazon Web Services (AWS) Certified DevOps Engineer - Professional
Amazon Web Services (AWS) Certified Solutions Architect - Professional
Amazon Web Services (AWS) Certified Big Data - Specialty
Amazon Web Services (AWS) Certified Data Analytics - Specialty
Amazon Web Services (AWS) Certified Advanced Networking - Specialty
Amazon Web Services (AWS) Certified Security - Specialty
Amazon Web Services (AWS) Certified Database - Specialty
Amazon Web Services (AWS) Certified Machine Learning - Specialty
Google Cloud Certified - Professional Data Engineer
Google Cloud Certified - Professional Cloud Network Engineer
Google Cloud Certified - Professional Cloud Architect
Google Cloud Certified - Professional Cloud Security Engineer
Google Cloud Certified - Professional Cloud DevOps Engineer
Google Cloud Certified - Professional Collaboration Engineer

What additional support does myCompetency framework provide to executives for proficiency certification in DevOps?



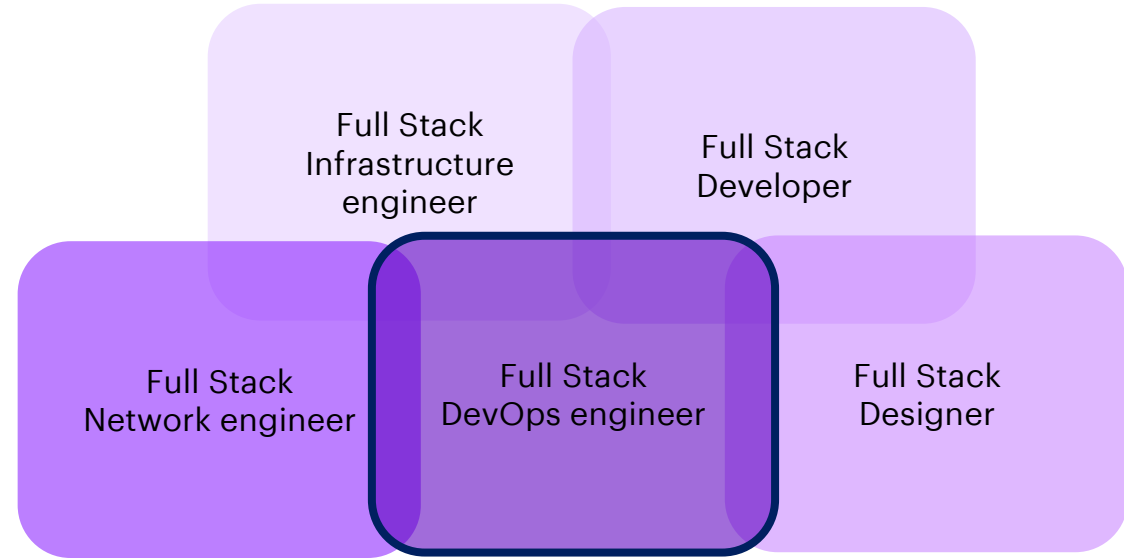
WHICH ROLES ARE SUPPORTED FOR DEVOPS EXECUTIVE ASSESSMENT?

Role Name	Topic Names/Coverage
User Experience Engineer	Color Theory; Layout; Design tools; Trends; Typography; Design style guide; Iconography; Imagery; Accessibility; Fundamental of Design; Responsive design; design principles
Test Architect	Testing Techniques
SI Solution Architect	Deal Qualification; Buyer values; Solution Scope; Solution Blueprint; Assumptions, Dependencies & Risks associated with Solution; Solution Estimation; Solution Delivery Model & Release Plan; Solution Staffing Model; Solution Costing & Pricing; Negotiation & Contracting; New IT Approach
SI Project Manager	Test Classes ; Initiation ; Tools & Techniques ; Financials ; Risks ; Communication ; EVM ; Infosec ; Metrics ; People ; Phases ; Productivity ; Reviews ; Schedule ; scope
SI Delivery Lead	EVM ; Productivity ; People ; Metrics ; Schedule ; Infosec ; Phases ; scope ; Reviews ; Communication ; Financials ; Initiation ; Risks ; Tools , Techniques
Security Delivery	Application Security ; Network Security ; Data Security ; Information Security ; Business Continuity ; ADM for Security
Scrum Master	Extreme Programming Practices ; Agile ALM Tool & Collaboration Tools ; Business Agility ; Lean Product Development Thinking ; Behavior Driven Development (BDD) automation ; Lean and Kanban application ;
Product Owner	ADM for DA ; Agile project management ; Business Agility ; Business Value Realization and Measurement ; Governance and Metrics ; Portfolio Management ; Working with Stakeholders, Customers, End Users ; Scrum and Kanban framework ; Scaled Agile and Devops ; prioritization estimation and refinement
Business & Integration Architect	
Application Developer	EVM ; Productivity ; People ; Metrics ; Schedule ; Infosec ; Phases ; scope ; Reviews ; Communication ; Financials ; Initiation ; Risks ; Tools & Techniques ; Test Classes
AO Solution Architect	Understanding Client`s Business Problem ; Conducting Application Portfolio Analysis ; Executing Financial / Budget Analysis ; AO-AM Estimator ; mySP for AO ; Identifying value proposition ; Defining delivery locations ; Defining PMO, DNPs and Costing Assumptions ; Identifying Assumptions and Risks ; SC guidance and QA ratings ; OpErA for Productivity ; New IT topics ; Living Systems approach ; Lean AO ; PCAT ; CDAT ; Service Transition ; CPR ; Rate Card ; myWizard for AO
AO Project Manager	Software development life cycle ; IT Service Management practices as defined by ITIL - Service Design, Transition and
AO Delivery Lead	Operation ; Risk Definition and Management ; Software Quality assurance and Service Quality ; Contract management ; Information security ; IT Transformation and Application modernization.
Technology Architecture Science	<ul style="list-style-type: none"> • Application Security Architect • Dev & Ops Architect • Application Integration Architect • Digital Technical Architect



What is the career path for **engineering roles** to get proficiency certification in DevOps?

Software Engineering discipline has 30% to 45% overlap with relevant DevOps skills. Individuals playing engineering roles can become proficient in DevOps with trainings and certifications.



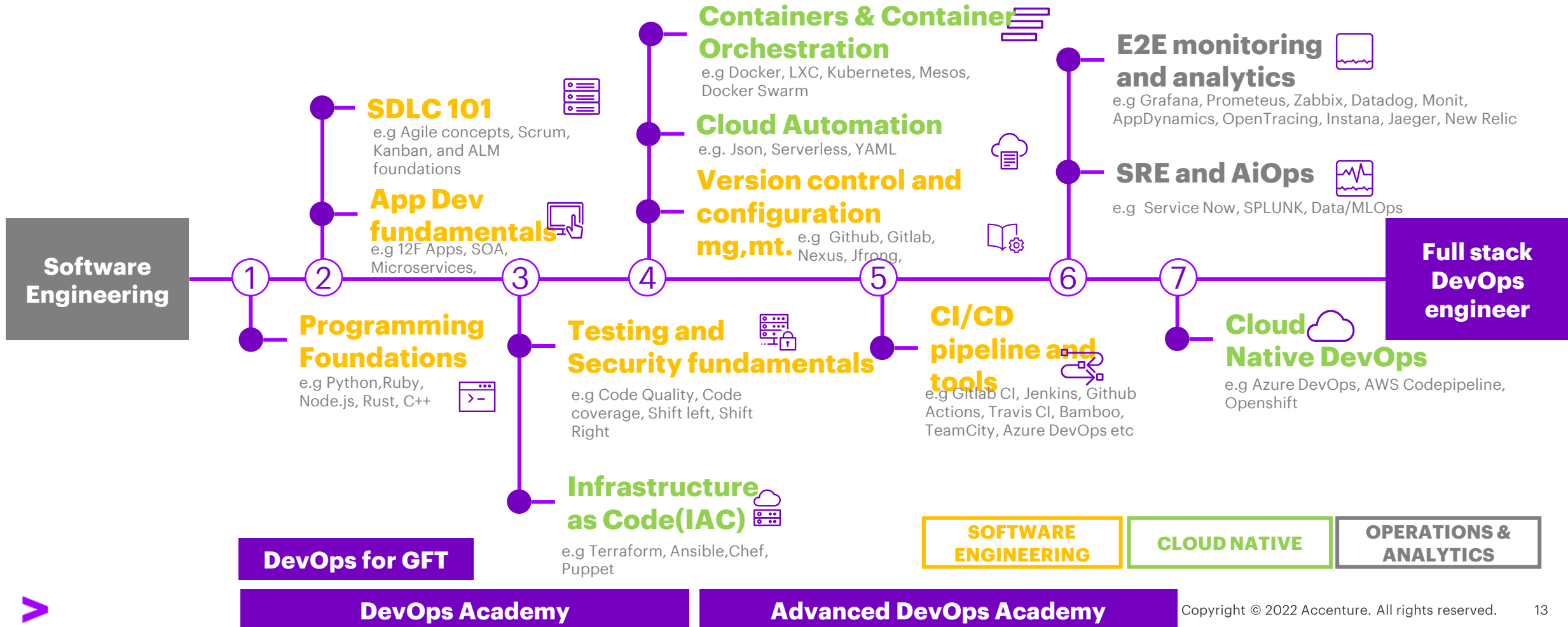
Full stack

+

Full stack DevOps engineer>	Version control + Testing+ Security, CI/CD pipeline, Cloud Automation, Containers, Cloud Native, monitoring and SRE, programming skills	↑ Capabilities
Full stack Developer>	Front End Dev + Backend Dev(Python, Ruby, PHP, .Net), Databases (SQL,MongoDb,PostGres), Cloud storage, testing and security version control + Mobile Apps	
Full stack Designer>	UX Design(research, wireframing), UI Design(visual design, mockups, UI elements), Rapid Prototyping(A/B testing), Front-End Dev(HTML, AngularJs, React, Bootstrap, PHP,Apache) + Mobile Apps	
Full stack Network engineer>	Routing, Switching, Virtualization, Data Center, Cloud, Automation skills	
Full stack infrastructure engineer>	Public/Private/Hybrid Cloud + On-premise, Server management, end-user computing, monitoring, cloud automation, CI/CD, Containers	

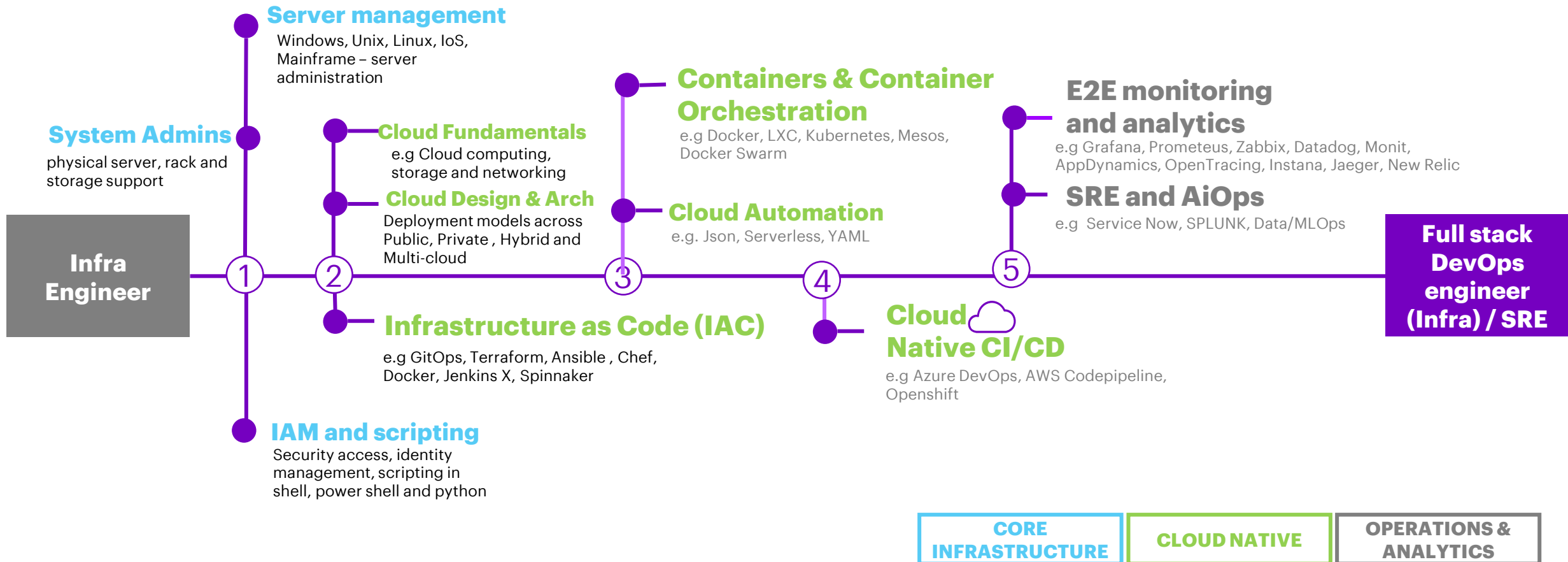
Roadmap from Software Engineer to Full-stack DevOps Engineer

Software engineers may be trained or skilled in one or more color-coded capabilities. To develop **into a full-stack engineer for DevOps**, they need to **become proficient across** the seven wayposts and **twelve capabilities**.



Roadmap from Infra Engineer to Full Stack DevOps Engineer (Infra/ SRE)

Software engineer aligned to cloud skills (e.g., Cloud Infra) are proficient in core cloud computing skills. To evolve to a Cloud engineer with a DevOps skillset, they need to add additional Cloud-native, operations, and analytics skills.



What trainings are available to prepare for proficiency certifications? (Capability Driven)

For Engineers (Level 12 and above)

DevOps Academy (Foundation)

DevOps Academy learning program is designed to introduce the concepts and principles of DevOps and Continuous Delivery.

It's a 4-Half a-days(4Hrs per day) intended for resources to enable them with the implementation of DevOps and enhances customer experiences.

For Executives and Architects(Level 9 and above)

Advanced DevOps Academy

Advanced DevOps Academy learning program designed to educate you in the latest evolving technologies within DevOps

It's a 4-Half a-days(4Hrs per day) intended for DevOps Resources to enable them with the niche technology trends in DevOps and engage with clients effectively.

For Executives and Delivery leads (Level 7 and above)*

DevOps for Executives

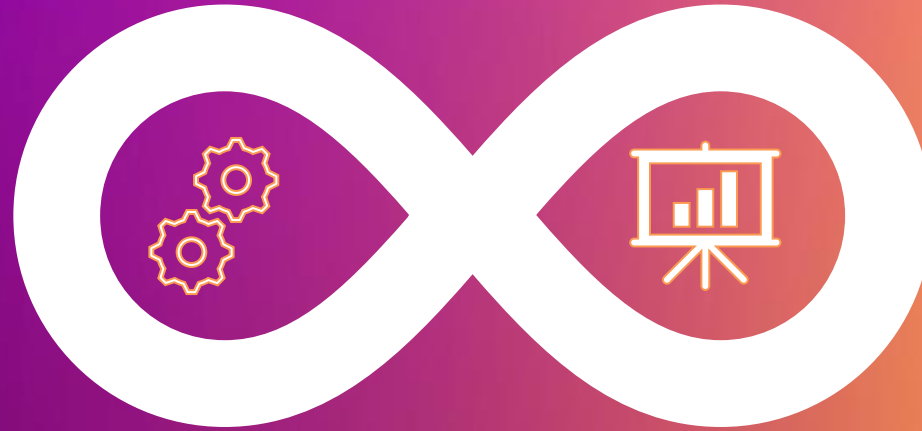
DevOps for Executives learning program designed to enable executives to engage with clients effectively on Accenture DevOps services

It's a 2-Half a-days(4.5Hrs per day) intended for participants to learn how DevOps can deliver value for our clients, what are the Accenture DevOps Offerings and capabilities are and principles of an enterprise DevOps transformation including insights on maturity assessment.

* LKM Formal launch pending

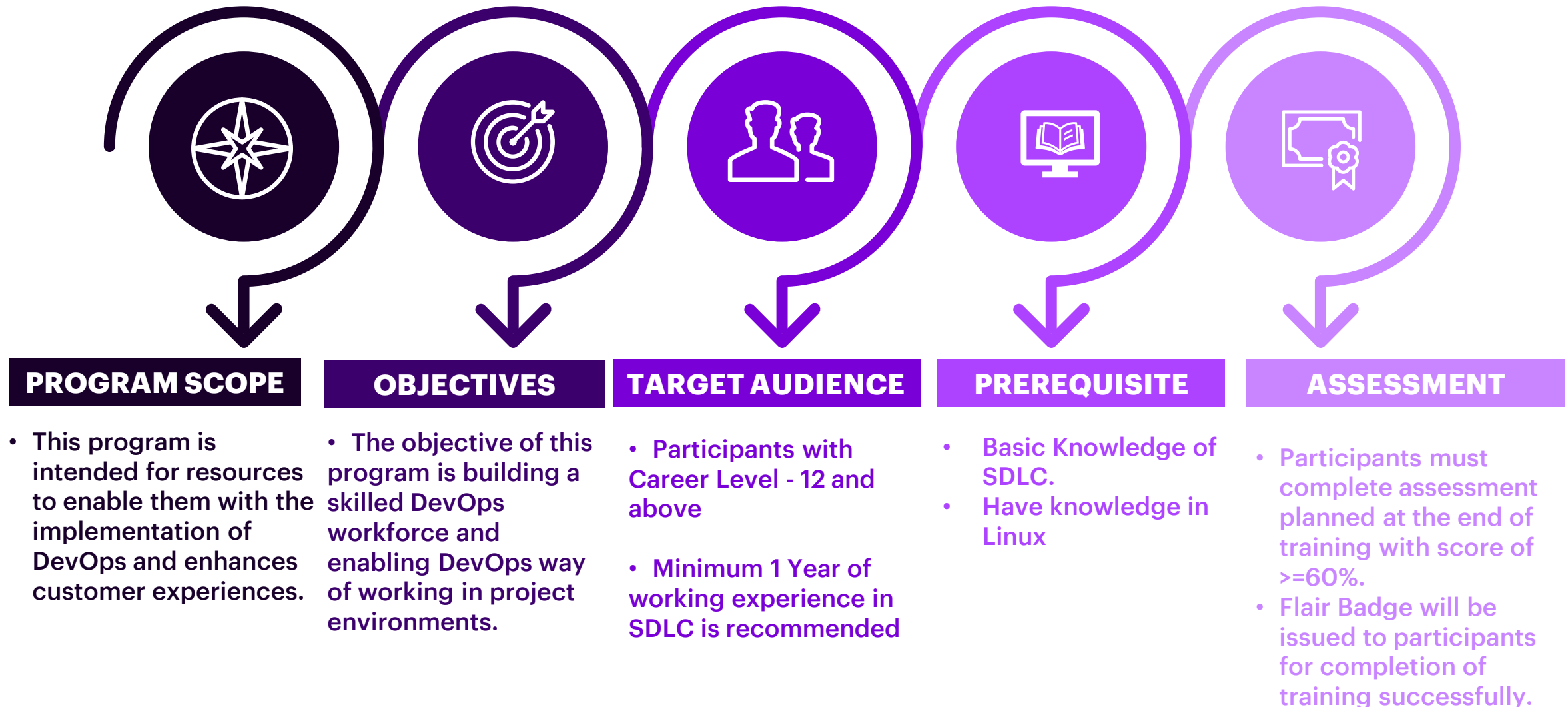
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DevOps Academy

“DevOps Academy, 4-Half a-days(4 Hrs per day)” learning program designed to introduce the concepts and principles of DevOps and Continuous Delivery. The program includes relevant hands-on exercises on the myWizard DevOps Platform with the objective to train participants with the DevOps concepts to make them experience end to end DevOps adoption.



CURRICULUM OVERVIEW



DAY 1

- Introduction to DevOps and Cloud Computing
- myWizard DevOps
- Case Study Introduction
- Software Configuration Management using Git and GitLab



DAY 2

- Continuous Delivery and Pipeline flow
 - Pipeline as a code using Jenkins
- Code Quality
 - SonarQube
 - DevSecOps Overview



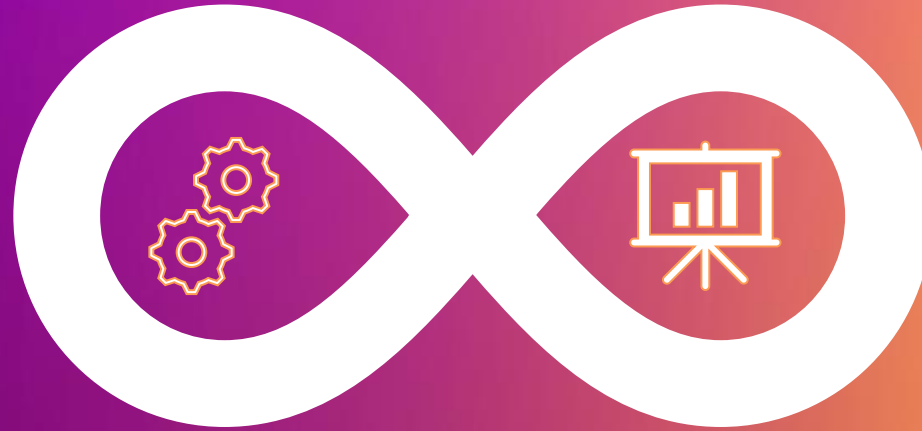
DAY 3

- Code Quality (Contd..)
- Introduction to Infrastructure as Code – Configuration Management using Ansible.



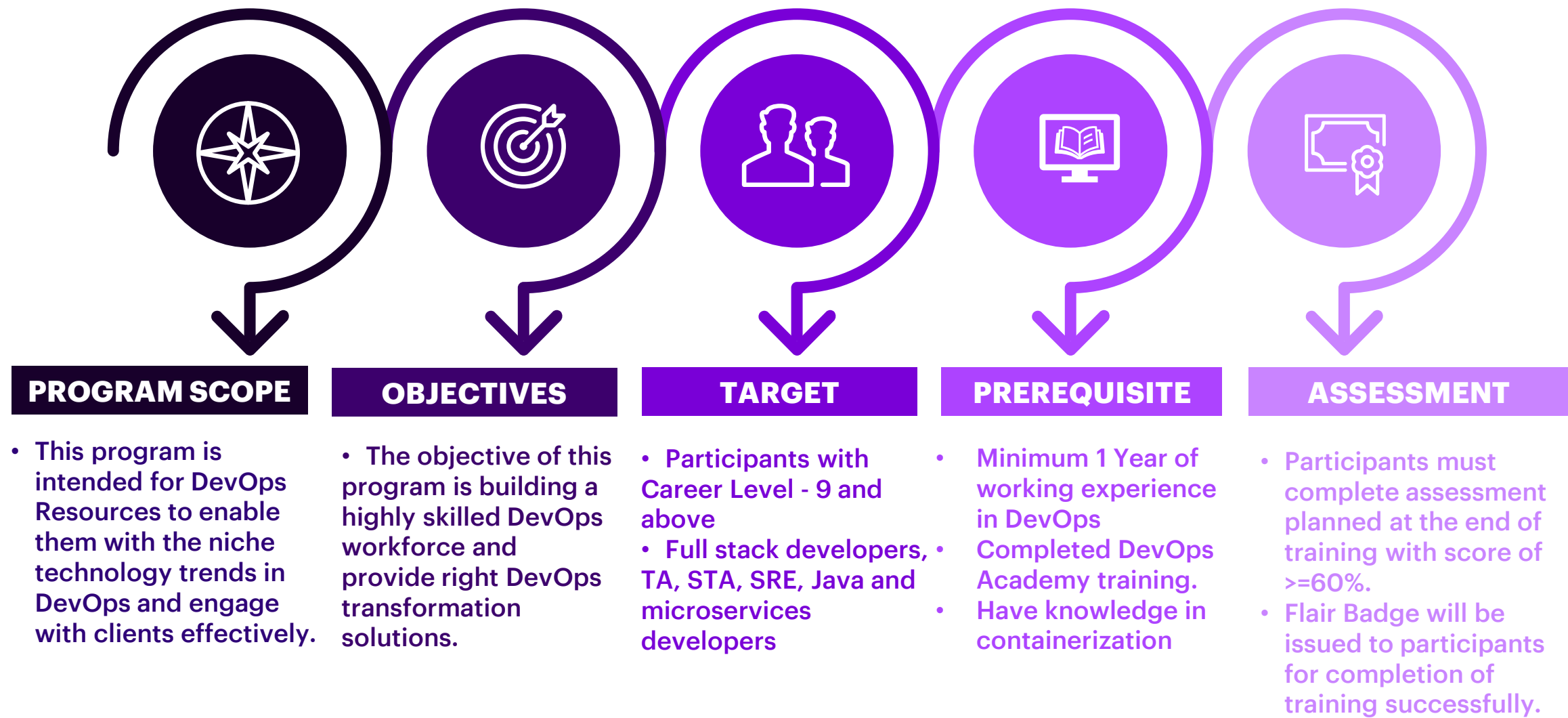
DAY 4

- Containerization
 - Overview of Docker and Kubernetes
- Operations
 - SRE Introduction
- Monitoring
 - Prometheus and Grafana



ADVANCED DEVOPS ACADEMY

"Advanced DevOps Academy", 4-half-a days(4.5 Hrs per day) learning program designed to educate you in the latest evolving technologies within DevOps. The program includes relevant hands-on exercises on the myWizard DevOps Platform.



CURRICULUM OVERVIEW



DAY 1

- **Journey of DevOps**
- **Introduction to DevXOps**
- **myWizard DevOps Marketplace & Platform**
- **Deep Dive of myWizard**

> **DevOps Platform**



DAY 2

- **Containerization**
- **Kubernetes**
- **Introduction to cartridges -Pipeline as a code**
- **DevSecOps & Shift Left Testing**



DAY 3

- **Infra as Code**
- **IaC using Terraform**
- **Multi-cloud management**
- **GitOps**
- **Application Onboarding**



DAY 4

- **Microservice Deployment Strategy**
- **Chaos engineering**
- **DevOps analytics**
- **Site Reliability Engineering**
- **Success Stories**

APPENDIX

THANK YOU