

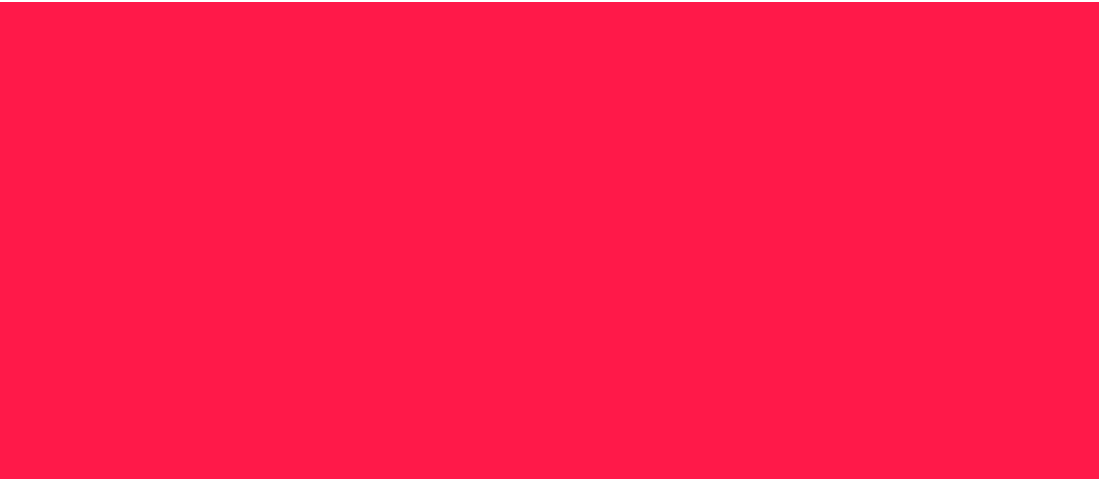
COHORT 2025

Techbridle
FOUNDATION

Course Outline

6TH JAN 2025 - 5TH DEC 2025

**TRAIN UNEMPLOYED AFRICAN YOUTHS
TO BECOME EMPLOYABLE SOFTWARE
DEVELOPERS AND FUTURE TECH LEADERS**



Course Outline

All modules will utilize AI tools, including ChatGPT and other free tools, to accelerate the learning process and help learners achieve excellent results within an 11-month period.

MODULE 1 - INTRODUCTION TO HTML, CSS AND BASIC JAVASCRIPT

4 WEEKS

Learn to design and create websites using HTML, CSS, and JavaScript. This training covers everything from basic webpage structure to advanced interactive features.

1st project

MODULE 2 - ADVANCED JAVASCRIPT AND DOM MANIPULATION

4 WEEKS

Explore advanced JavaScript concepts and DOM manipulation techniques, including closures, promises, async/await, and event handling to create dynamic, interactive web applications.

MODULE 3 - FRONTEND DEVELOPMENT WITH REACT

3 WEEKS

Learn to build dynamic, responsive web applications using React. This module covers component-based architecture, state management, hooks, and routing, enabling you to create efficient and maintainable user interfaces.

2nd project

MODULE 4 - ADVANCED REACT AND TYPESCRIPT

3 WEEKS

Master advanced React techniques and TypeScript integration. Learn custom hooks, context API, and TypeScript types to build scalable, type-safe applications.

MODULE 5 – BACKEND DEVELOPMENT WITH C# AND .NET

4 WEEKS

Learn to build robust backend systems using C# and .NET. This module covers APIs, exception handling, and security practices, equipping you to create efficient and scalable server-side applications.

3rd
project

MODULE 6 – WEB API DEVELOPMENT WITH ASP.NET CORE

4 WEEKS

Learn to create robust Web APIs using ASP.NET Core. This module covers routing, controllers, data handling, authentication, and deployment, equipping you to build scalable and secure APIs for modern web applications.

MODULE 7 – DATABASE MANAGEMENT WITH SQL AND NOSQL

3 WEEKS

Learn to manage databases using SQL and NoSQL. Topics include data modeling, queries, and performance optimization.

MODULE 8 – DEVOPS AND CLOUD DEPLOYMENT

4 WEEKS

Master DevOps practices and cloud deployment. Learn CI/CD, infrastructure as code, and deploying applications to cloud platforms.

**MODULE 9 – AGILE
METHODOLOGY AND SCRUM**

4 WEEKS

Learn Agile principles and Scrum practices. This module covers sprint planning, daily stand-ups, and iterative development to enhance team collaboration and project efficiency.

**MODULE 10 – TEAM PROJECTS
DEVELOPMENT**

10 WEEKS

Collaborate on real-world projects to apply your skills. This module emphasizes teamwork, project planning, and execution, preparing you for industry challenges.

**Final
project****MODULE 11 – JOB
PREPARATION & END OF
COURSE**

2 WEEKS

Prepare for your career with resume building, interview techniques, and job search strategies. This module concludes with a review of key concepts and a final project presentation.