**✅ Training Overview**

* **Audience**: Developers familiar with coding (Java, Python, Node.js), AWS basics
* **Goal**: Enable participants to use Amazon Q for coding, debugging, documentation, refactoring, and integrating into cloud-native development workflows.
* **Mode**: Instructor-led, hands-on labs, use of VS Code/Cloud9
* **Tools**: Amazon Q Developer in VS Code or Cloud9, AWS CLI, Git, sample projects

**📅 4-Day Amazon Q Developer Training Plan**

| **Day** | **Topics** | **Hands-On Labs/Activities** |
| --- | --- | --- |
| **Day 1** 🔹 *Getting Started with Amazon Q Developer* | - Introduction to Amazon Q & GenAI for Devs - Key capabilities: code generation, explanation, test writing - Setting up Amazon Q in VS Code & Cloud9 - Amazon Q Developer vs Business vs Apps | ✅ Set up Amazon Q in VS Code/Cloud9 ✅ Explore the UI and ask sample questions ✅ Use Q to write a basic HelloWorld project in Java/Python |
| **Day 2** 🔹 *Code Generation, Suggestions & Navigation* | - Using Q to generate boilerplate code, API calls, Lambda functions - Working with SDKs, APIs, and cloud resources - Documentation generation & in-code help - Navigating and explaining legacy code | ✅ Ask Q to generate a Lambda with S3 trigger ✅ Use Q to explain an open-source project codebase ✅ Auto-generate Swagger/OpenAPI docs from Spring Boot app |
| **Day 3** 🔹 *Testing, Debugging, Refactoring* | - Writing unit/integration tests with Amazon Q - Debugging assistance & bug explanations - Refactoring code with Q - Using Q for secure coding practices | ✅ Generate JUnit tests with Q ✅ Debug a broken REST API and get fix suggestions ✅ Refactor a legacy Java method using Q suggestions |
| **Day 4** 🔹 *Cloud Integrations + Project Work* | - Integrate Q with AWS Services (S3, DynamoDB, Lambda, etc.) - CI/CD use cases with Q (CodePipeline/CodeBuild) - Final Project: Build, test, document & deploy an app using Q - Recap + Best Practices | ✅ Build & deploy a Q-assisted app to AWS ✅ Use Q to write CloudFormation or CDK template ✅ Showcase project & discuss feedback |

**🧠 Outcomes**

By end of the 4-day training, participants will:

* Confidently use Amazon Q for code generation, debugging, and enhancement
* Improve developer productivity using GenAI assistants
* Understand how to integrate Q into real-world AWS projects