GH-900: GitHub Foundations

Domain 1: Introduction to Git and GitHub (22%)

Understand the basics of Git

1	Explain what Git is and why it is used
2	Describe the basic Git workflow
3	Understand the concept of repositories
4	Explain the difference between local and remote repositories

Work with Git commands

5	Initialize a Git repository
6	Clone a repository
7	Add and commit changes
8	Push and pull changes
9	Understand branching and merging

Navigate GitHub

10	Create a GitHub account
11	Create and manage repositories on GitHub
12	Understand the GitHub interface
13	Use GitHub issues and pull requests

Domain 2: Working with GitHub Repositories (8%)

Manage repository settings

14	Configure repository settings
15	Set up repository permissions
16	Use repository templates

Work with files in a repository

17	Add, edit, and delete files
18	Understand file versioning
19	Use GitHub Desktop for file management

Domain 3: Collaboration Features (30%)

Collaborate using GitHub

20	Fork repositories
21	Create and manage pull requests
22	Review and merge pull requests
23	Use GitHub Actions for CI/CD

Use GitHub for project management

24	Create and manage issues
25	Use labels, milestones, and projects
26	Track progress with GitHub Projects

GH-900: GitHub Foundations

	Domain 4: Modern Development (13%)
	Implement DevOps practices
27	Understand the principles of DevOps
28	Use GitHub Actions for automation
29	Implement CI/CD pipelines
	Use GitHub for code review
30	Conduct code reviews
31	Use GitHub's code review tools
32	Understand best practices for code reviews
	Domain 5: Project Management (7%)
	Manage projects with GitHub
33	Create and manage GitHub Projects
34	Use project boards for task management
35	Integrate GitHub Projects with issues and pull requests
	Domain 6: Privacy, Security, and Administration (10%)
	Ensure repository security
36	Set up branch protection rules
37	Use security features like Dependabot
38	Manage repository access and permissions
	Administer GitHub organizations
39	Create and manage organizations
40	Set up organization-level security
41	Manage teams and members
	Domain 7: Benefits of the GitHub Community (10%)
	Engage with the GitHub community
42	Participate in open source projects
43	Use GitHub Discussions
44	Contribute to community projects