Day 1: Introduction to Lightning Web Components (LWC)

- **Overview of Lightning Web Components**
  - Introduction to LWC
  - Benefits of using LWC
  - Comparison with Aura Components
- **Setting Up Your Salesforce Developer Org**
  - Creating a Salesforce developer org
  - Enabling LWC features in your org
  - Setting up Salesforce CLI and Visual Studio Code
- **Getting Started with LWC**
  - Understanding the LWC architecture
  - Creating your first Lightning Web Component
  - Exploring the LWC folder structure and files

Day 2: Building Basic Lightning Web Components

- **LWC Basics**
  - HTML templates in LWC
  - JavaScript classes and ES6 features
  - CSS and styling in LWC
- **Hands-On: Creating Basic Components**
  - Building simple components
  - Handling events and data binding
  - Using Lightning Design System (LDS) with LWC
- **Best Practices for Basic Components**
  - Component naming conventions
  - Writing clean and maintainable code
  - Debugging and testing components

Day 3: Advanced LWC Features

- **Advanced JavaScript in LWC**
  - Using decorators (@api, @track, @wire)
  - Reactive properties and methods
  - Working with modules and imports
- **Handling Data in LWC**
  - Communicating with Salesforce data (Apex, LDS)
  - Using wire adapters and functions
  - Managing component state and lifecycle
- **Hands-On: Building Advanced Components**
  - Creating components with dynamic data
  - Implementing component communication (parent-child, pub-sub)
  - Debugging and testing advanced components

Day 4: Integrating LWC with Salesforce Ecosystem

- **Integrating LWC with Salesforce**
  - Embedding LWC in Lightning Pages and Apps
  - Using LWC with Lightning App Builder
  - Interacting with Salesforce data (CRUD operations)
- **Hands-On: Integrating LWC Components**
  - Adding LWC to Lightning Pages
  - Building interactive forms with LWC
  - Using LWC in Salesforce Communities and Experience Cloud
- **Advanced Integration Techniques**
  - Leveraging third-party libraries
  - Implementing custom events and event bubbling
  - Performance optimization techniques

Day 5: Deployment, Security, and Best Practices

- **Deploying LWC to Production**
  - Packaging and deploying LWC
  - Using Salesforce DX for version control
  - Continuous integration and deployment (CI/CD) for LWC
- **Security Best Practices**
  - Ensuring data privacy and security in LWC
  - Implementing security measures (Locker Service, CSP)
  - Handling sensitive data in LWC
- **Review and Q&A**
  - Recap of key concepts
  - Open forum for addressing specific questions and scenarios
  - Final assessment and feedback