

Prerequisites: HTML, CSS, JavaScript and Basics of React

Module 1: SharePoint Framework

- Why SharePoint Framework?
- Modern toolchain
- The Future
- More Info

Module 2: Preparing your machine

- Setup Office 365
- Software Installation

Module 3: Modules

- Creating a Project
- Using Modules
- CommonJSs
- Important Modules

Module 4: Framework Client Web Parts

- What is a Client Web Part?
- Creating a project
- Exploring Project Contents
- Running Your Project
- Gulp tasks
- Web Part Configuration

Module 5: TypeScript

- What is TypeScript
- Usage
- Language
- Variables
- Functions
- Interfaces and Classes
- Promises and Async/Await
- Other Features
- Modules
- Summary

Module 6: Client Web Part Properties

- Webpart Properties

- Adding Properties
- Using Properties
- Preconfigured Entries
- Dynamic Data
- Custom Properties
- Advanced Configuration

[Module 7: Loading SharePoint Data](#)

- Page Context
- Web Services Overview
- REST and ODATA Fundamentals
- SharePoint REST API's
- AJAX
- Default Http Client
- Default SharePoint Http Client
- Checking the environment
- List Subscriptions

[Module 8: Loading Libraries and/or Frameworks](#)

- Considerations
- NPM Package
- Loading from a URL
- Loading A Local Copy
- Loading jQuery and plugins
- Component loader
- Conclusion

[Module 9: Build and Deploy a Framework solution](#)

- Overview
- Bundling
- Packaging
- Deployment
- Site Specific App Catalog
- Deploying Assets
- Features
- Versioning
- Deploy to Microsoft Teams

[Module 10: SASS](#)

- What is SASS?
- The Language
- Variables

- Types
- Comments
- Nested Rules and Properties
- Partial
- Extend
- Mixins
- Functions

[Module 11: Office UI Fabric](#)

- What Is Office UI Fabric?
- Office UI Fabric Versions
- Fabric Core Styles
- Example Uses
- Fabric Components
- Fabric JS
- ngOfficeUIFabric
- Fabric React

[Module 12: Consuming AAD secured API's](#)

- Introduction to Microsoft Graph
- Microsoft Graph API
- Consuming the Microsoft Graph API
- Registering application in Azure AD
- API Permissions
- Consuming AAD protected API's
- Security Guidance
- Domain Isolated Web Part
- Security Control
- Summary

[Module 13: SharePoint Framework Extensions](#)

- Extensions Overview
- Creating Extensions
- Application Customizers
- Field Customizers
- Command Sets
- Extension Deployment

[Module 14: Dynamic Data](#)

- Introduction
- Exposing data
- Consuming data

- Dynamic Data From Code
- Advanced Configuration
- Summary