

# PCF - Power Apps Code Components in a Day

## Prerequisite:

App in a Day course, Software Development background, or equivalent work experience with Microsoft Power Platform.

## Course Description:

This course is targeted for pro developers. It assumes you have knowledge of developing using JavaScript and HTML.

Please ensure you have a windows machine with the setup detailed in the course documentation.

This one-day course and labs covers how to build and deploy code components for Power Apps. The second part of this course focuses on using React & Fluent UI in code components.

## Pre-requisite Setup

- If you have not already, you will need to follow the pre-requisites to ensure you have a windows machine with the following setup:
  - Visual Studio Code
  - Node.js
  - Microsoft Power Platform VS Code extension
  - A Power Apps Developer Environment
- Detailed instructions are found at the start of the first lab.

Session	Topics Covered
Introductions	
PCF Quick Start	<ul style="list-style-type: none"><li>• VS Code &amp; PAC CLI</li><li>• TypeScript with npm modules</li><li>• Overview of the component lifecycle</li><li>• Simple field PCF</li><li>• Testing using the test harness</li></ul>
<b>Break</b>	
Labs	
Deploying & Configuring code components	<ul style="list-style-type: none"><li>• Deployment to Dataverse</li><li>• Configuring in model-driven and canvas apps</li><li>• Testing/Debugging using Fiddler</li><li>• Versioning</li></ul>
<b>Break</b>	

Labs & Q&A	
Introduction to Part 2	
React Basics	<ul style="list-style-type: none"> <li>• Component events, props &amp; state</li> <li>• Class vs functional components</li> <li>• Virtual Dom and component rendering</li> <li>• Writing simple react components</li> </ul>
<b>Break</b>	
Labs	
Building code components with Fluent UI	<ul style="list-style-type: none"> <li>• Adding Fluent UI to a PCF project</li> <li>• Mapping props to Fluent UI Controls</li> <li>• Debugging</li> <li>• Deploying</li> <li>• Virtual Controls &amp; Shared Libraries</li> </ul>
<b>Break</b>	
Labs & Q&A	
Wrap-up	