**Design Patterns Workshop Syllabus**

Location: Office of the Comptroller of the Currency (OCC)

Dates: October 10 – 11, 2017

Presenter: Crystal Tenn | Presenter email: [Crystal.Tenn@Microsoft.com](mailto:Crystal.Tenn@Microsoft.com)

**Day 1**

* 9AM – 10AM
  + Overview Core Design Patterns
    - Lab on Design Patterns
* 10AM – 11AM
  + SOLID Slides
    - Lab on SOLID
* 11AM – 11:30AM
  + Design Patterns Jeopardy
* 11:30PM – 1PM: Long Lunch Break
* 1PM – 1:30PM
  + MVC / MVP Refresher Slides
* 1:30PM – 3:30PM
  + Dependency Injection + Comparisons between Mef and Unity
    - Mef lab, create a new simple Console application with Mef
    - Mef2 lab, create a new .NET Core application with Mef2
    - Unity lab, create a new Console application with Unity

**Day 2**

* 9AM – 11AM
  + Building REST API’s + Naming Conventions + Best Practices
    - Swagger Demo
    - Fiddler Demo
    - Postman Demo
    - REST API + Swagger Lab
* 11AM – 12PM
  + Dapper Intro + Comparison to Entity Framework
    - Start Dapper lab
* 12PM – 1PM: Lunch
* 1PM – 1:30PM
  + Dapper Lab
* 1:30 – 2PM
  + Tooling Presentation + Demo: ReSharper configurations, SonarQube
* 2:30PM – 3:30PM
  + Visual Studio 2017 and C# 7.0 Features Presentation