

The background of the entire image is a dark blue gradient. On the left side, there is a faint, stylized illustration of a suspension bridge, likely the Golden Gate Bridge. On the right side, there is a faint silhouette of a city skyline, including the Transamerica Pyramid. The OSIsoft logo is centered at the top in white.

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USERS CONFERENCE 2016

April 4-8, 2016 | San Francisco

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PI AF SDK for Beginners

Presented by **Speaker Names**





Exercises

Exercises Content

Exercise	Difficulty (1 = Easier)
1. Connection and Hierarchy Basics	1
2. Searching for Assets	2
3. Reading and Writing Data	2
4. Building an AF Hierarchy	3
5. Working with Event Frames	3

Exercise Format

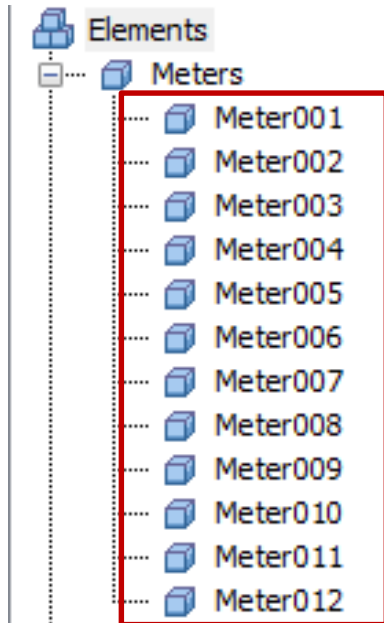
- The workbook introduces each topic and coding scenario
- Each exercise contains:
 - Visual Studio Project containing multiple stub methods.
 - A corresponding “solutions” project with suffix “-sln”

Each Machine has a Local PI System

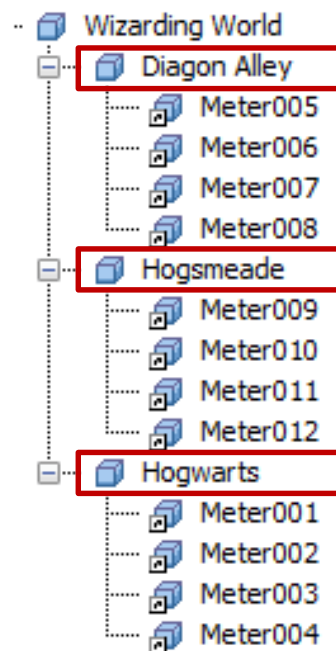
- PI Data Archive 2016
- PI AF 2016
- Visual Studio Enterprise 2015
- PI System has a database for the examples

Exercises use AF Database: Magical Power Company

12 Meters



Organized by Region



Measuring energy usage

The screenshot shows the 'Meter005' configuration window with tabs for General, Child Elements, Attributes, Ports, Analyses, and Version. The 'Attributes' tab is active, displaying a table of attributes. The 'Energy Usage' attribute is highlighted with a red box.

Filter	
Name	Value
Category: <None>	
Substation	Edinburgh
Usage Limit	360 kWh
Category: Building Info	
Building	Flourish and Blots
Building Type	Business
Category: Location	
District	Diagon Alley
Category: Time-Series Data	
Energy Usage	155.068544775001 kWh

Getting Help during the Lab

- Lab instructors
- [PI AF SDK Online Reference](#)
- Search on [PI Square](#)
- Local AFSDK.chm, version 2.8
- Look at the answers. It's not an exam. 😊

Near the End of the Lab

- Take the lab materials for future reference
 - Workbook: PI-AF-SDK-for-Beginners-Workbook.pdf
 - Visual Studio exercises:
PI-AF-SDK-For-Beginners-TechCon2016.sln
 - Example database import: Get help 'AFImport /?'
 - %pihome64%\af\afimport "\\[AFServer]\Magical Power Company" /file:"Magical Power Company.xml"
- Comments and Questions?
- The Azure VM is available for 30 days.

Access Lab Development Environment

- Credentials
 - Domain account: PISCHOOOL\student01
 - Password: student

Open the Exercises Workbook

- Open Workbook
 - Desktop>PI AF SDK for Beginners>
 - Open **PI-AF-SDK-for-Beginners-Workbook.pdf**
- Follow directions in **Getting Started**

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