



Overview:

A Data Infrastructure Approach to Critical Operations

We **BELIEVE** People with **DATA** Can **TRANSFORM** THEIR WORLD. OSIsoft, now part of AVEVA, invites you to come share, listen, learn, and collaborate with your peers on the best practices and value driven from their operational data infrastructure within their respective utilities in Power Generation, Water and Transmission and Distribution as it pertains to Southern California. Actual PI System implementation at multiple customers in the industry will be used to illustrate the operational data infrastructure. Come share your experience with your peers, learn more about what you can do with the PI System, and participate in basic and advanced AVEVA training.

Who Should Attend:

Existing, new, and non-PI System Users.

Professional across the enterprise who should attend: Operations, Engineering, Planning and Asset Management.



SCPPA Meeting Proposed AGENDA

Timing: September 20th and 21st 2022 – 2 days (September 20th and 21st)

Location: SCPPA Training Center, Glendora, CA

Day 1 (September 20th)

Optional Pre Event Presentation – PI 101

30 to 45 minutes followed by a 30 minute break

Begins 9 AM

This session will cover the fundamentals of the Modern PI System and is tailored for those that are either new to the PI System and would like an introduction to the technology or existing PI System Users wishing to update and refresh their knowledge.

For those unfamiliar with the PI System, it provides a great foundation to better understand the workshop content. For more info about the PI System, visit our website at <https://www.osisoft.com/pi-system>.

Workshop Day 1 Morning Content – begins 10 AM

- Introductions
- Agenda Review
- Power Generation – AVEVA Industry Principal Presentation
 - How the PI System has an Effect
 - How the PI System is Used Today and Possibilities for the Future
- Transmission & Distribution – AVEVA Industry Principal Presentation
 - How the PI System has an Effect
 - How the PI System is Used Today and Possibilities for the Future
- Water - AVEVA Industry Principal Presentation
 - How the PI System has an Effect
 - How the PI System is Used Today and Possibilities for the Future

Lunch Break

Workshop Day 1 Afternoon Content – begins 1 PM

- SCPPA PI System Customer Presentations
 - Each member with the PI System (20 - 30 minutes each Burbank Water and Power, Glendale Water and Power, Riverside Public Utilities, Los Angeles Department Water and Power, Pasadena, Imperial Irrigation District, Vernon)
 - Discuss how the PI System is implemented
 - Different divisions within the utility
 - Critical System Usage
 - Corporate views (Situational Awareness versus Business Intelligence)
 - Vision for what lies ahead
 - Q&A from other members
 - Share “True Best Practices” i.e., Asset Framework Setup for a specific scenario
- Summary of Day 1
- Day 2 Prelude
- Refreshments, Discussions, and Adjournment



Day 2 (September 21st)

Workshop Day 2 - Two simultaneous training tracks - Basic & Advanced

Track 1 - Basic

Morning Session: 9am – Noon - Visualizing PI System Data

About this course

This class is for beginning users of PI System data and is often an individual's first look at AVEVA's products. PI System managers often take this class as well. Learn how to build dynamic, graphical, interactive web-based dashboards with PI Vision.

By the end of the course, you will be able to...

- Understand the PI System Basics
- Learn PI Time Syntax
- Create a simple PI Vision display to monitor your process
- Enhance displays using related assets, multi-state behavior, collections, and graphics library
- Link different PI Vision displays
- Search and manage PI Vision displays
- View and share PI ProcessBook displays in PI Vision

Audience Level - Introductory

Prerequisites

- No specific knowledge of the PI System software is required
- A computer that will pass our [connection test](#).

This Course Includes...

- Manual filled with exercises and quizzes to help you learn the material
- A Cloud Environment configured to complete all the exercises in the course



Track 1 - Basic

Afternoon Session: 1:00pm – 3:00pm – Beyond the Basics with PI Vision

About this course

This lab is designed for people who already have already used PI Vision. Students should already be familiar with how to create displays in PI Vision and understand how PI Vision is able to leverage AF Templates.

By the end of the course, you will be able to...

- Enhance displays using latest features

Audience Level – Introductory

Prerequisites

- Knowledge of the PI System and PI Vision. Previously attending Visualizing PI System Data would be helpful
- A computer that will pass our [connection test](#).

This Course Includes...

- Manual filled with exercises and quizzes to help you learn the material
- A Cloud Environment configured to complete all the exercises in the course

Track 2 - Advanced

Morning Session: 9am – Noon - See the Light, Easy wins to improve your Asset Framework Experience

About this course

This Lab offers you a wealth of best practices that will substantially improve your experience of the PI System. We will focus on Asset Framework (a.k.a. AF) and Asset Analytics, and we will use PI Vision to look at the consequences of adopting good and bad practices in AF modelling. We will work on AF using PI System Explorer (a.k.a. AF Client)

By the end of the course, you will be able to...

- Understand the tools used to efficiently build tags, assets, and analytics
- Manage Administration of AF Databases
- PI System Best Practices

Audience Level – Intermediate PI Knowledge

Prerequisites

- Basic knowledge of PI Asset Framework. PI Vision
- Basic understanding of a relational database
- A computer that will pass our [connection test](#).

This Course Includes...

- Manual filled with exercises and quizzes to help you learn the material
- A Cloud Environment configured to complete all the exercises in the course

Track 2 - Advanced

Afternoon Session: 1pm – 4pm – PI meets BI

About this course

Integrating the PI System with Business Intelligence tools is an effective way to give your process data a new look. In this lab you will learn ways to integrate PI with BI, both inside and out. Hands on exercises will use the PI Integrator for Business Analytics to create Asset and Event Views which can be imported into BI tools. For comparison, a view will be created using the PI SQL Client. Using Power BI, students will design a report which uses analysis filters to dynamically set asset and time context for drilling into real-time data using PI Vision. We will also demonstrate the use of tooltip pages to add depth to any report.

By the end of the course, you will be able to...

- Integrate PI Data with Business Intelligence Tools, including our PI Integrator for Business Analytics
- Enhanced Reporting
- Create views with PI SQL Client

Audience Level – Novice to Advanced PI Knowledge

Prerequisites

- Good knowledge of the PI System software is required
- Prior knowledge of SQL/PI Tools helpful, not required
- A computer that will pass our [connection test](#).

This Course Includes...

- Exercises to help you learn the material
- A Cloud Environment configured to complete all the exercises in the course