1. What is ThingWorx, System requirements & Setting it up. IoT Fundamentals and related

2. ThingWorx Basics

ThingWorx Modelling

ThingWorx Visualization

ThingWorx Data Storage

ThingWorx Security

ThingWorx System and Subsystem

Extensions

JavaScript

3. ThingWorx Integration with other applications

Kepware

InfluxDB w/ ThingWorx

Third-party application integrations

4. ThingWorx Deployment

ThingWorx Application Deployment

5. Advanced Topics

ThingWorx High Availability Architecture

Extension Development

SSO

Ananlytics

6. Hands-on Project

Capstone Project

protocols.

Design Pattern basics, Thing, Thing Template, Thing Shape,Schedulers, Network, Timers, Subscriptions, Alerts, tags, Datashape, Best practices

Mashup , Master , Mashup Template , Widgets, Menus , Media , Theme, Style and State definitions, CSS Formatting

DataTable , Stream , Value Stream , Persistent Provider, Infotable, Datashapes, SQL(Potgres, MSSQL) Database integration

Permissions, User, User group , Organization , Application key, Best practices, Setting up Microsoft AD

Subsystems, Resources, Logs and Debugging , Localization .

Need, and usage

Advanced JavaScript coding and best practices

Kepware integration with Thingworx, Industrial connection etc.

InfluxDB as persistence provider.

REST, Odata, SAP Connector, WindChill, ThingWorx Navigate, MQTT and other connectors, AMQP

Import-Export, Solution Central, CI-CD Methods, Scripts

Active-Active clustering for ThingWorx, Connection Server etc.

Widget and backend extension development.

Setting up SSO using PingFederate, Authenticators

ThingWorx Analytics

2 Weeks project utilizing the above concepts.