

Hexagon PPM Advanced Training



Hands-on, paid, sign-up required

Develop your professional skills with instructors who are experts in Hexagon PPM software. These half-day paid training sessions have limited seating. View the catalog for training sessions [here](#).

Meeting	Day	Time	Location
1501: Managing Plant Lifecycle Including Project Execution with HxGN SDX	Tuesday, June 11	01:00 PM - 5:00 PM	Casanova - 604
1502: Improve Maintenance, Inspection Planning and Execution with the Digital Twin HxGN SDX Operations	Tuesday, June 11	08:00 AM - 12:00 PM	Casanova - 604
1503: Advanced CADWorx Project Execution	Tuesday, June 11	08:00 AM - 12:00 PM	Casanova - 605
1504: Calculating Natural Frequencies in Piping Systems Using CAESAR II	Tuesday, June 11	01:00 PM - 5:00 PM	Casanova - 605
1505: Leveraging Your Data Using the Intergraph Smart Electrical Web API	Tuesday, June 11	08:00 AM - 12:00 PM	Casanova - 606
1506: Transition PDS Assets to Smart 3D As-Built for Efficient Operations and Maintenance	Tuesday, June 11	08:00 AM - 12:00 PM	Casanova - 607
1507: Civil and Structural Detailing Including Integration with SDS/2	Tuesday, June 11	01:00 PM - 5:00 PM	Casanova - 607
1508: Tracking Fabrication and Assembly Lines with Smart Materials Mobile Scan	Tuesday, June 11	01:00 PM - 5:00 PM	Casanova - 606
1509: j5 Shift Operations Management with Data Integration	Tuesday, June 11	08:00 AM - 12:00 PM	Marco Polo - 801
1510: Rapid Application Development within the j5 Framework	Tuesday, June 11	01:00 PM - 5:00 PM	Marco Polo - 801

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1501: Managing Plant Lifecycle Including Project Execution with HxGN SDX

Across its lifecycle a plant is under constant change; from greenfield to contractor handover to extension projects, maintenance modifications, de-bottlenecking and other activities are changing the AsBuilt state of a facility. Typically handling multiple changes and projects is a challenge and creates potential conflicts. There is often an administrative burden and disconnected information. During this session, you will learn how HxGN SDx solutions provide a common database to allow management of these changes consistently. Learn how to raise and evaluate a change and how the new impact analysis of SDx Operations will help identify the required documentation and data needed for the execution of a change, as well as identifying potential conflicts. Additionally, practice how small changes can be handled with SDx Operations and how larger projects executed with external parties/companies can be handled with SDx Projects. We will show examples of how Capital Facilities Information Handover Specification (CFIHOS) can be used to exchange project data with offline contractors. Compliance comes as standard with SDx. Capabilities that will be covered: data capture using CFIHOS; management of change process; impact analysis; visual intelligence reporting; document lifecycle; submitting revisions of documents; QA review including document mark-up; technical query work process; conflict resolution and project close out; export in CFIHOS format; AsBuilt verification of change.

Speakers: Sascha Antvogel and Rene van Strien | Hexagon PPM

1502: Improve Maintenance, Inspection Planning and Execution with the Digital Twin HxGN SDX Operations

Get an overview about the new HxGN SDx release and its connectors to SAP Plant Maintenance and OSI PI. Learn how to improve the efficiency of maintenance and inspection work processes. Get your hands on the latest release of HxGN SDx, learn how to identify open work within the plant using the new visual intelligence reporting for 3D models, and understand how the new impact analysis will indicate if your plant is under change and identify potential conflicts. Prepare SAP work orders, which create connected SDx work packages. Learn how these work packages can describe detailed scope for an SAP work order and how it will be made available offline using the new HxGN SDx Mobile application. Bring your own device (iOS/Android) and get a first sneak preview of the new app. Lastly, get an overview of how HxGN SDx integrates with j5, the newly acquired shift handover and permit to work system at Hexagon PPM. Capabilities that will be covered: SAP integration; work package planning; OSI; data books; impact analysis; mobile app; visual intelligence reporting; j5 integration.

Speakers: Sascha Antvogel and Nils van Heijnsbergen | Hexagon PPM

1503: Advanced CADWorx Project Execution

An advanced CADWorx & Analysis implementation provides many opportunities for efficiency gains in any project workflow. Join us in this session as we address the challenges of utilizing your investment in data and models to maximize deliverable automation based on your 3D efforts. Topics covered include:

- Specs and Libraries
- Project Setup
- Intelligent P&IDs
- Point Cloud Integration
- 3D Modeling Design
- Analysis Coordination
- Advanced Deliverable Automation
- Model Review/Visualization and Model-Driven Management of Change/Revisions
- Project Publication

FEATURED SOFTWARE: BricsCAD; CADWorx P&ID Professional; Leica CloudWorx w/Jetstream; CADWorx Plant Professional; CADWorx Structure; PV Elite; CAESAR II; GT STRUDL; CADWorx Design Review Professional; Isogen

Speaker: Chad Snider | Hexagon PPM



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1504: Calculating Natural Frequencies in Piping Systems Using CAESAR II

Engineers are increasingly interested in the frequency response of their piping systems as a measure of their “likelihood of failure.” In this session, attendees will create a model for dynamic analysis in CAESAR II. This model will be used to point out modeling and analysis decisions necessary for a correct and effective modal analysis.

Speaker: David Diehl | Hexagon PPM

1505: Leveraging Your Data Using the Intergraph Smart Electrical Web API

Smart Electrical Web API opens a world of possibilities for accessing project data, including retrieving and viewing data from multiple projects at a single endpoint and accessing data from a device where Intergraph Smart Electrical is not installed. This session will begin with a discussion of installing and configuring the web API environment including client tools such as Postman and obtaining web client credentials. We will continue with a series of labs where you will learn how to access meta and project specific data using pre-configured queries as well as your own queries.

Examples will include accessing the EDM (Entity Data Model), plant metadata, items and their properties in a project, such as motor and cable collections, documents list, user defined fields (UDF), and select lists. You will also learn how to use in your query a variety of functions and methods such as count, order by, filters and more. You will learn how to use the Web API to update item properties as well as Power BI, a data visualization toolset to produce custom reports consumed from the Web API data that allows electrical engineers and stakeholders to see the big picture, make informed decisions, identify significances, and track trends over time to reduce cost and stay on schedule.

Other topics include: visualized reports such as total motor count per unit and its manufacturer distribution, or total cable material to order per cable type, list of power cable ready to publish to S3D per unit, cables count already routed in 3D and more.

Speaker: Yuval Adler | Hexagon PPM

1506: Transition PDS Assets to Smart 3D As-Built for Efficient Operations and Maintenance

If you are an owner operator with digital assets in PDS or if you are an EPC maintaining PDS digital assets for owners, this Advanced Training session will walk you through the details of transitioning these PDS assets to Intergraph Smart 3D As-Built for efficient operations and maintenance going forward. You will learn how to convert both your catalog and model data to Smart 3D As-Built. In particular, you will learn how you can convert the PDS catalog and piping specifications to Smart 3D. Also, you will learn to convert PDS model data to Smart 3D As-Built and how Project As-Built workflows can be executed in Smart 3D to maintain this facility going forward.

Speakers: Kiran Gummuluri and Ravi Pammina | Hexagon PPM

1507: Civil and Structural Detailing Including Integration with SDS/2

With Intergraph Smart 3D's structural and civil engineering tools and the new SDS/2 Connect for Smart 3D, we will guide you through workflows that allow engineers to make decisions early, reduce workflow & RFIs, improve inter-discipline communication, streamline data to fabrication and ensure constructability fit-up. This will help shorten schedules and reduce costs. The presentation will cover overall integration, latest product improvements, a brief demo of the new functionality and an opportunity to discuss how to incorporate this functionality into your workflow.

Speaker: Joe Harrison | Hexagon PPM



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1508: Tracking Fabrication and Assembly Lines with Smart Materials Mobile Scan

Increasing efficiency and reducing errors leads to better bottom line results. Making your fabrication and assembly line teams focus on what really counts - instead of administration - also increases results on different levels. In this highly interactive training session you will create spools/assemblies; assign barcodes and QR codes to components; receive/issue these components to a fabrication or assembly drawing; set up fabrication and/or assembly stations; and move through all stations until the end product is automatically received. All of this is done by just a few click on a mobile device! For this training you would be required to bring a laptop, mobile phone (IOS or Android) and a pair of walking shoes as this is really an interactive experience.

Speaker: Johan Kroon | Hexagon PPM

1509: j5 Shift Operations Management with Data Integration

This session is designed to demonstrate the functionality of the j5 IndustraForm technology to deliver quick time-to-value in the digitization of your daily plant shift handovers and other operational business processes. In their individual demonstration environments, participants will perform hands-on configuration of the Shift Handover IndustraForm templates within the spreadsheet-like IndustraForm Designer, including integration with external data sources, process historians, etc.

Speaker: Jon Running | Hexagon PPM

1510: Rapid Application Development within the j5 Framework

This session can stand on its own or build on the initial Shift Handover training (Session 1509) and will allow the participant to configure a sample application to address a specific business process outside of Shift Handover. Experience configuring a new application which integrates with existing j5 applications. Participants will experience the complete beginning-to-end process of converting an example spreadsheet or paper-based business process into a j5 application and integration with j5 Shift Operations Management.

Speaker: Jon Running | Hexagon PPM

