Prefab, Status Tracking, Inventory Management and Cost Control on the Job Site

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**Learning Objectives**
- Understand the benefits of prefabrication
- Identify ways to reduce waste
- Inventory status and install tracking
- Self-perform workflow

**Description**
Attendees will take away a better understanding of the prefabrication process from start to finish. We'll cover best practices used to provide all information necessary for coordination, ordering, fabrication, and install, as well as start to finish creation of prefabrication build sheets, with workflows from BIM 360 to Revit for model coordination. You’ll be able to better understand the use of Revit custom family creation for prefabrication assembly build sheet creation. Used for hot and cold aisle modules, in-fill strut layout of ceiling grid, parapet stud walls, and interior wall penetrations for a large data center project. We will review generating a detailed quantity take-off based on the coordinated model, to efficiently reduce material waste using an Excel add-in Optimulan. In addition, we will cover status, inventory tracking and cost control best practices we employed using Autodesk Assemble and Power Bi.

**Speaker(s)**
Langdon Lynch is a VDC Project Manager for DPR. Langdon has extensive knowledge of REVIT, including family and model creation. His current position requires managing a team overseas, multi-trade VDC coordination, creating comprehensive build sheets, and quality control standards to meet the needs of site and prefabrication facility.

John DiFiglio is a Senior Project Engineer at DPR. John has over 8 years of experience in the construction industry. At DPR, his focus is on advanced technology and healthcare projects.
Understand the benefits of prefabrication

Prefabrication does not always need to be full assemblies delivered to the project site. There are many benefits to component prefabrication also. By having components pre-measured and pre-engineered the field install can go much smoother. By front loading you work with prefabrication efforts crew size can be consistent and maintained.

Identify ways to reduce waste

Model based quantity take offs give you precise information needed ahead of construction. This information enables you to identify were there is a potential for waste. Based on these take offs the material orders are as accurate as possible.

Inventory status and install tracking

Understanding where you inventory is located and how much you have is critical to a successful project. Install tracking allows a deep insight into production of crews and prediction of completion dates.

Self-perform workflow

Standardized workflow for Prefabrication, from VDC coordination phase through field install. Utilizing Revit, Excel, and Assemble.