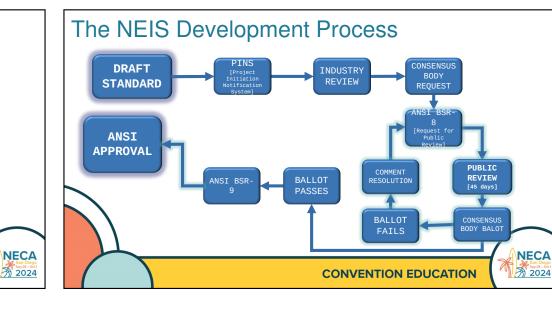


## **Objectives**

- Introducing NECA-5
- Prefabrication Processes
- Pre-Con Planning and Prefab
- Lessons Learned and Improvement
- Measuring Prefab
- Electrical Inspections

**CONVENTION EDUCATION** 



## **NEIS TITLES**

- NECA 91, Recommended Practice for Maintaining Electrical Equipment
- NECA 417, Recommended Practice for Designing, Installing, Operating, and Maintaining Microgrids
- NECA 600, Standard for Installing and Maintaining Medium-Voltage Cable
- NECA 700, Standard for Installing Overcurrent Protection to Achieve Selective Coordination

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## **NEIS/NECA 5-2022**

- NECA 5-2022, Recommended Practice for Prefabrication of Electrical Installations for Construction.
- Provides recommended on-site and off-site practices for prefab of electrical installations
- Defines a minimum baseline of quality and workmanship for performing prefabrication of electrical installations in construction.



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NECA

2024

## What is Prefabrication?

#### Prefabrication

A manufacturing process that generally takes place at a specialized facility, other than the building site, where materials are joined to form a component part of a final installation.



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**NECA** 

2024

## Why prefab?

- Cost-Effective
- Speed up Timelines
- Increased Productivity
- Controlled Build Environment = Safety
- Decreased Labor Costs
- Need to be Competitive

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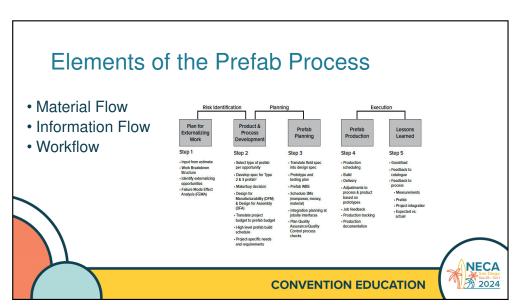
## **Prefabrication Processes**

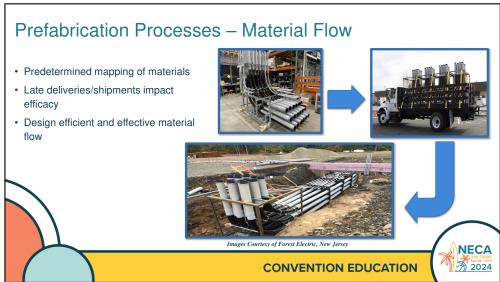
### To assure an effective, reliable, and frictionless prefab process:

- Independent of the project/project site.
- Mapping and alignment of material, work and information
- · Align prefab and jobsite expectations
- Avoid redundant activities/functions

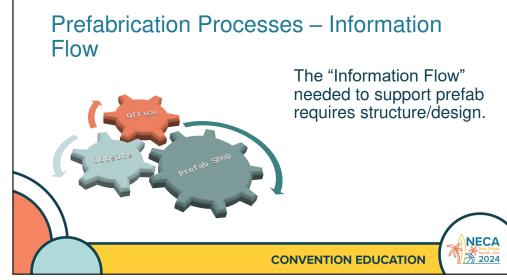


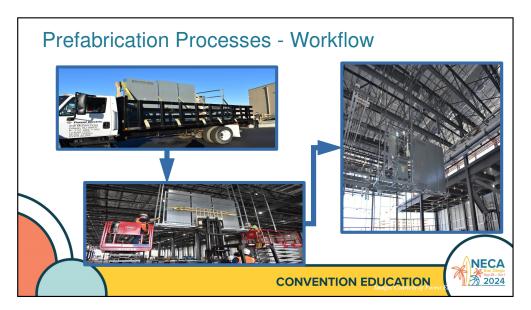
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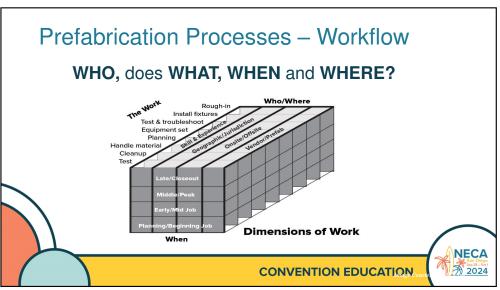


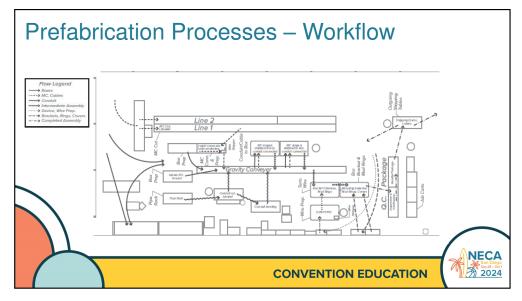


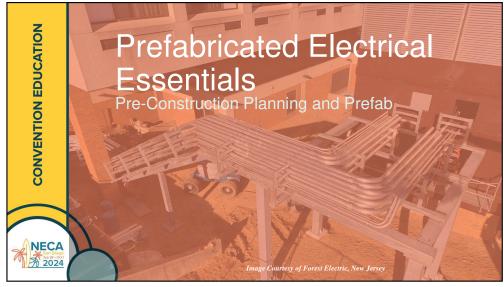










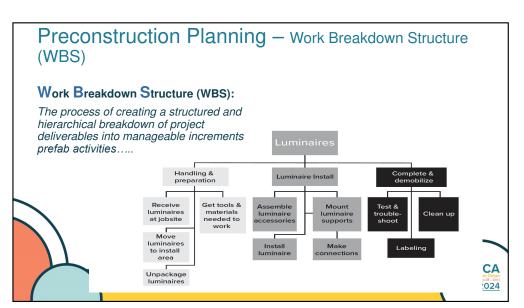


# Preconstruction Planning - General

- General Project Overview
- Identify Prefab Opportunities
- Work Breakdown Structure (WBS)
- Multi-Trade Prefab

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# Preconstruction Planning – Prefab Opportunities

Prefab work can be categorized into three (3) types:

Type 1 – Common Prefab Items

Type 2 – Work Specific Prefab Items

Type 3 – Build to Order Prefab Items

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