

PLAN USER GUIDE
Work Packaging

FIELD EXECUTION MANAGEMENT

INEIGHT 

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CONTENTS

LESSON 1 — WORK PACKAGING OVERVIEW	9
1.1 Plan Work Packaging Overview	10
1.1.1 InEight Plan Work Flow	10
1.1.2 Work Packaging	12
1.1.2.1 Work Package Details	13
1.1.2.2 Comprehensive Workflow	15
Lesson 1 Review	16
Lesson 1 Summary	16
LESSON 2 — GENERAL NAVIGATION	19
2.1 Page Navigation	21
Navigate to the Work Plans Module via the Project Home Page	21
Navigate to the Work Plans Module via the Navigation Bar	22
2.1.1 Construction Work Areas (CWA) Page	25
2.1.2 Construction Work Packages (CWP) Page	26
2.1.3 Installation Work Packages (IWP) Page	26
2.2 Columns	27
2.2.1 Move Columns	27
Move Columns	27
2.2.2 Sort Columns	27
Sort Columns	28
2.2.3 Filter Columns	28
Filter Columns	28
Exercise 2.1 — Filter Columns	31
2.3 Data Blocks	32
2.3.1 Add Data Blocks	32
Add Data Blocks	32
2.3.2 Navigate Data Blocks	34

2.3.3 Manage Data Blocks	34
2.3.3.1 Context Menu	34
Use the Context Menu	34
2.3.3.2 Resource Button	35
2.3.3.3 Daily Plan Icon	35
Add and Manage Data Block Contents	37
2.3.3.4 Pin Icon	38
2.3.3.5 Completion Indicator	39
2.4 Viewsets	40
Create a Viewset	40
Exercise 2.2 — Create a Viewset	41
Lesson 2 Review	42
Lesson 2 Summary	42
LESSON 3 — WORK PACKAGE MANAGEMENT	45
3.1 InEight Plan Workflow – Work Package Management	47
3.2 Work Package Management Overview	47
3.2.1 What is Advanced Work Packaging (AWP)?	47
3.2.2 Work Packages	48
3.2.2.1 Construction Work Package (CWP)	49
3.2.2.2 Installation Work Package (IWP)	50
3.3 Work Package Creation	51
3.3.1 Create a Construction Work Package (CWP)	51
Create a Construction Work Package (CWP)	51
3.3.2 Edit Work Packages	53
Edit a Work Package	54
3.3.3 Copy Work Plans	55
Copy a Work Package	55
3.3.4 Create an Installation Work Package (IWP)	57
Create an Installation Work Package (IWP)	57
3.3.5 Group Work Packages	59
Group a Work Package	59
3.4 Installation Work Package Details	61
3.4.1 Work Package Overview Tab	61
Installation Work Package Overview	62
3.4.2 Installation Work Package Workspace Tab	62
Installation Work Package Workspace	63
3.4.3 Installation Work Package Constraint Management Tab	65
3.4.4 Installation Work Package Documents Tab	66

- 3.5 Work Package Import 66
 - 3.5.1 Import Template 66
 - Create Work Packages from Excel Import 66
- Exercise 3.1 — Enter Work Package Details 70
- Lesson 3 Review 71
- Lesson 3 Summary 72

STEP-BY-STEP PROCEDURES

Navigate to the Work Plans Module via the Project Home Page	21
Navigate to the Work Plans Module via the Navigation Bar	22
Move Columns	27
Sort Columns	28
Filter Columns	28
Add Data Blocks	32
Use the Context Menu	34
Add and Manage Data Block Contents	37
Create a Viewset	40
Create a Construction Work Package (CWP)	51
Edit a Work Package	54
Copy a Work Package	55
Create an Installation Work Package (IWP)	57
Group a Work Package	59
Installation Work Package Overview	62
Installation Work Package Workspace	63
Create Work Packages from Excel Import	66

EXERCISES

Exercise 2.1 — Filter Columns 31

Exercise 2.2 — Create a Viewset 41

Exercise 3.1 — Enter Work Package Details 70

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LESSON 1 – WORK PACKAGING OVERVIEW

Lesson Duration: 45 minutes

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the two modules of Plan
- Explain the high-level work flow of Plan – Work Packaging

Lesson Topics

1.1 Plan Work Packaging Overview	10
1.1.1 InEight Plan Work Flow	10
1.1.2 Work Packaging	12
Lesson 1 Review	16
Lesson 1 Summary	16

1.1 PLAN WORK PACKAGING OVERVIEW

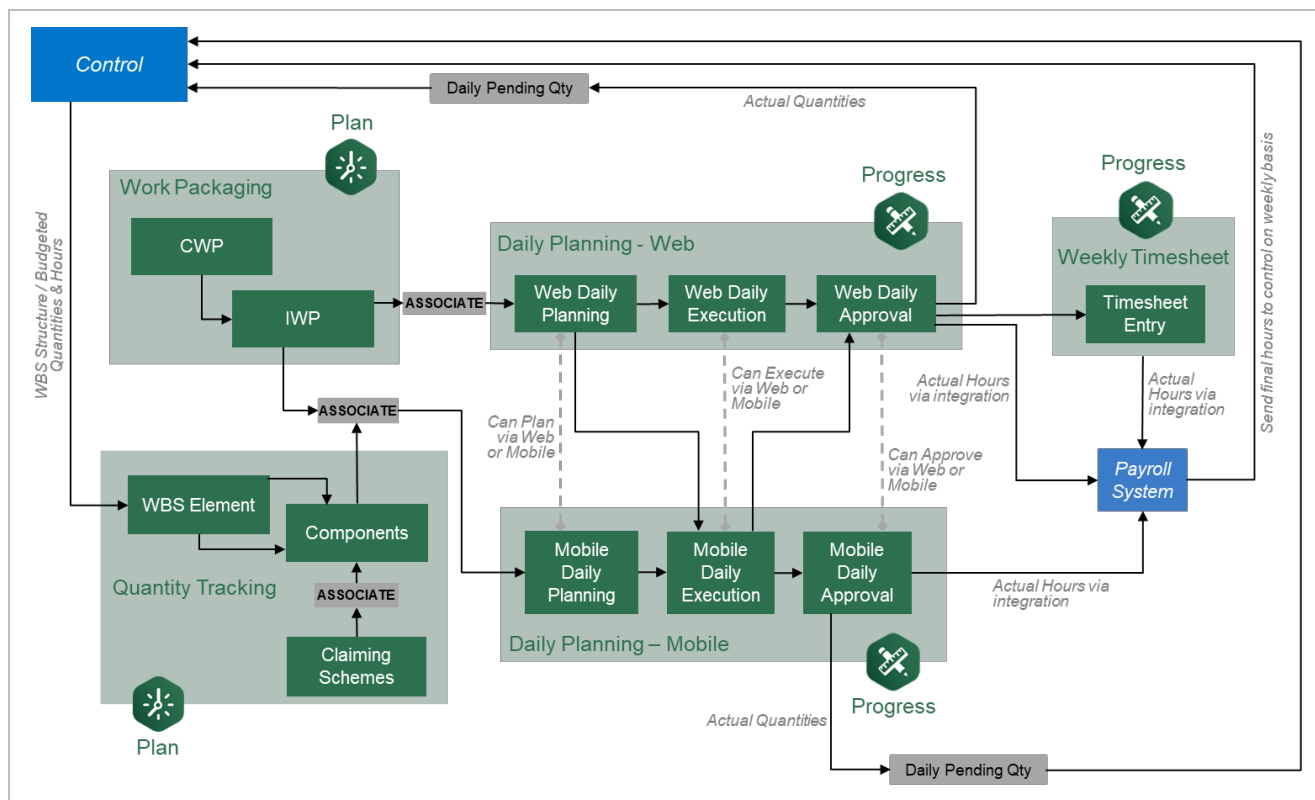
InEight Plan is an application within the InEight portfolio of products. It is a tool for engineers and superintendents to plan their work and track quantities during the construction of the project.

InEight Plan is organized into two modules:

Plan Modules	
Work Packaging	Creating and managing work packages.
Quantity Tracking	Creating and managing components and claiming schemes. Claiming completed quantities.

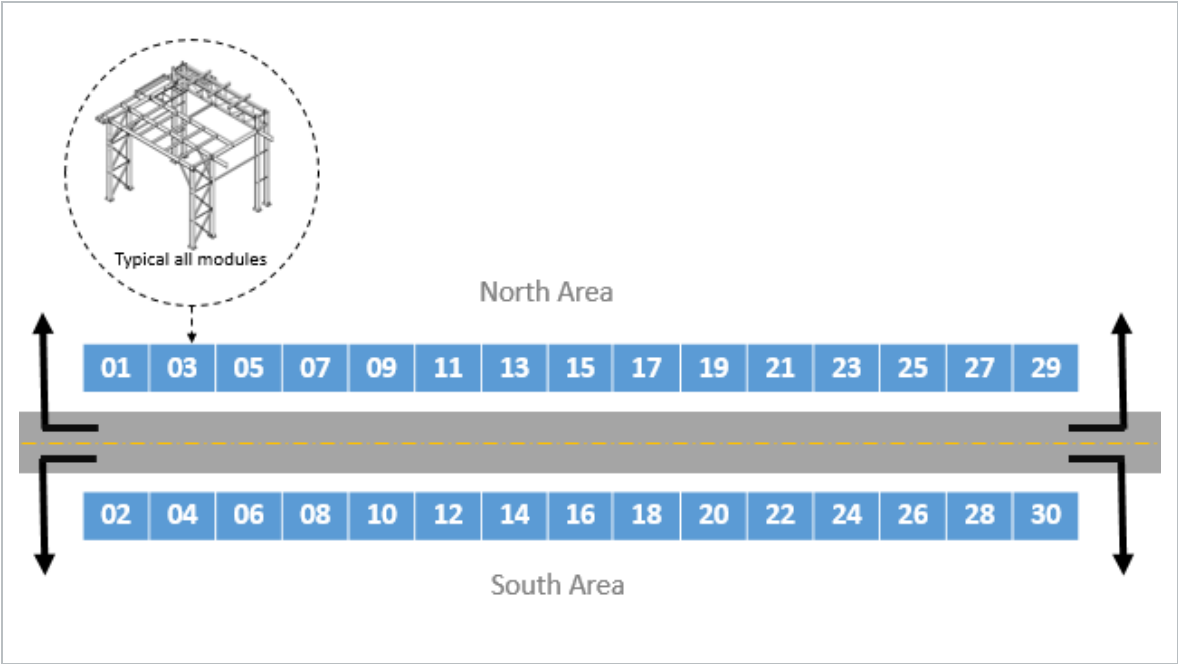
1.1.1 InEight Plan Work Flow

The below workflow illustrates the functions of both InEight Plan and InEight Progress, and how data flows between the two applications.

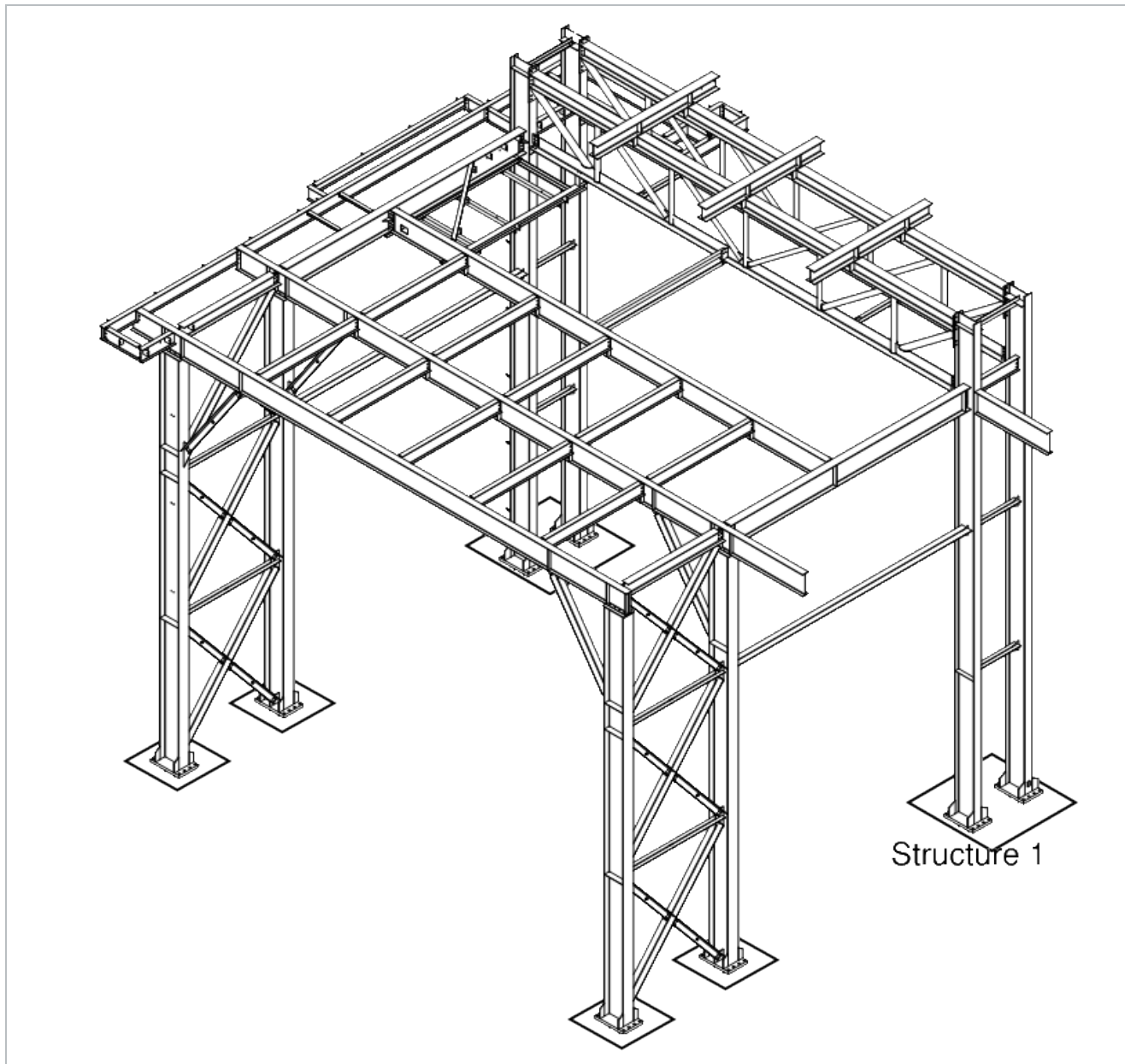


Scenario

You are a Project Manager about to start construction of a Steel Structure project. Your first step before starting construction is to break the project down into pieces that are more manageable.

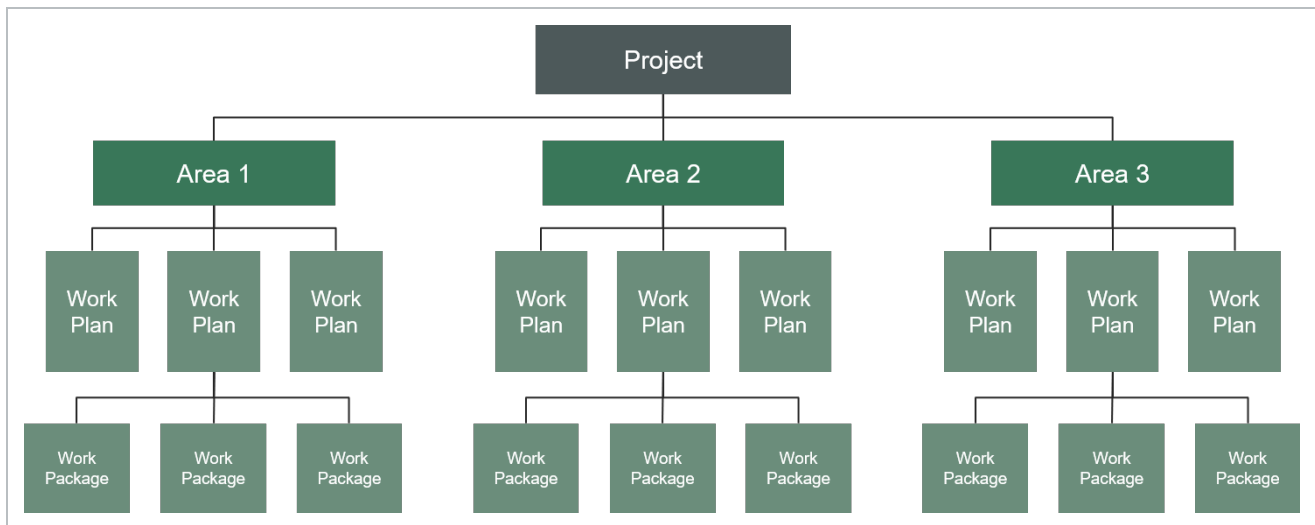


The image below depicts a layout for a steel structure project. The project consists of erecting 30 separate steel structures on opposite sides of a road. Each structure or module has been assigned a number 1-30.

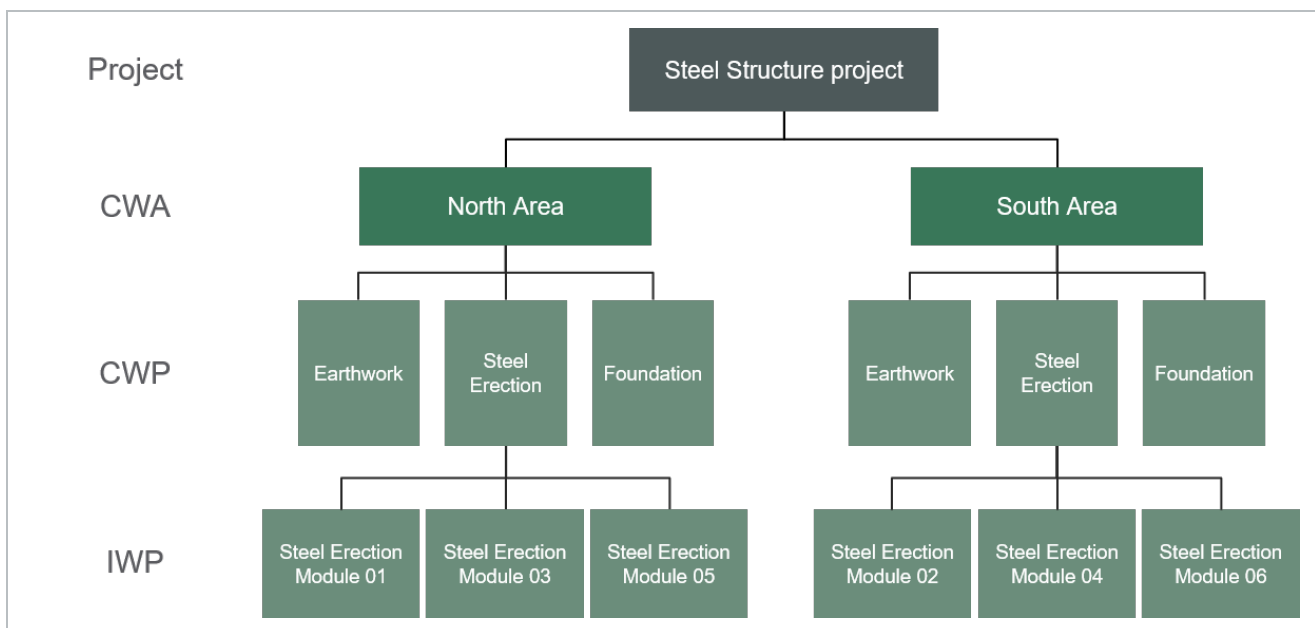


1.1.2 Work Packaging

Work Packaging breaks down projects into small, manageable scopes of work so that operations can be assigned to responsible supervision, executed, and tracked effectively. In InEight Plan, you can break the work of your project into construction work areas (CWAs), construction work packages (CWPs) and installation work packages (IWPs).



As mentioned in the scenario above, the scope of the Steel Structure project was too big to manage without segmenting it down to work packages representing one to four weeks' worth of work. In Plan, this breakdown of the project could look like this:



1.1.2.1 Work Package Details

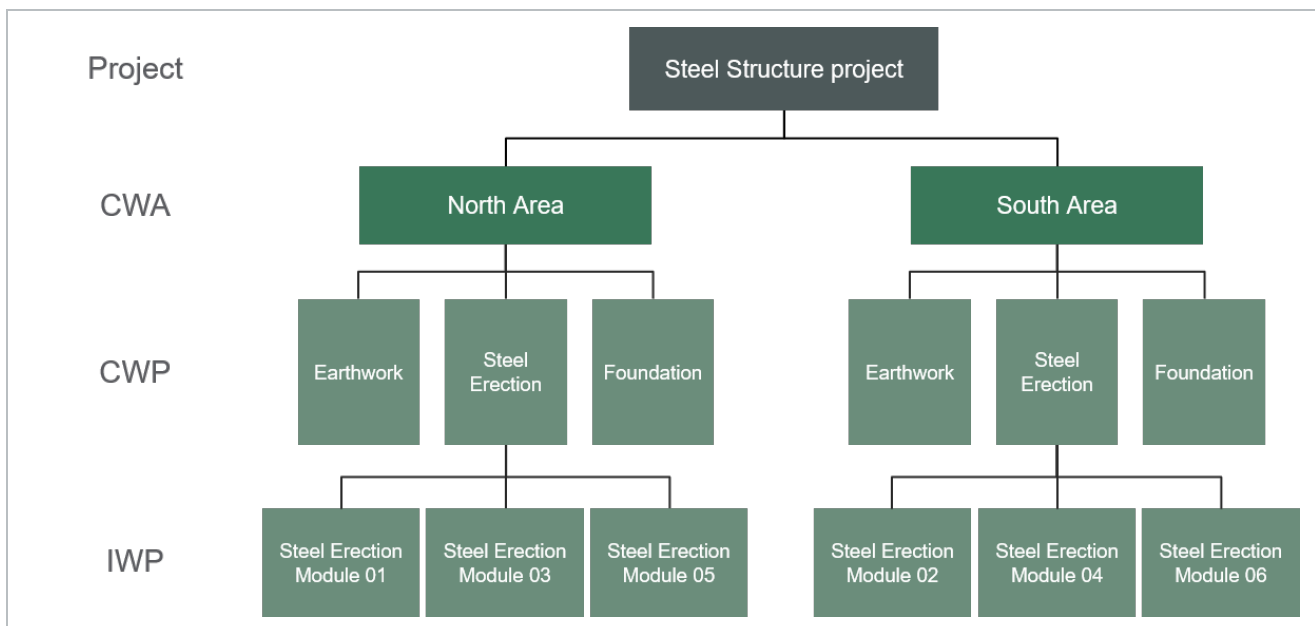
Work package details include the following information:

- Work sequence
- Budget

- Resources required
- Components and quantities
- Constraint Management
- Safety, quality, and environmental concerns



For your Steel Erection work plan, you can create a work package for each module.



NOTE

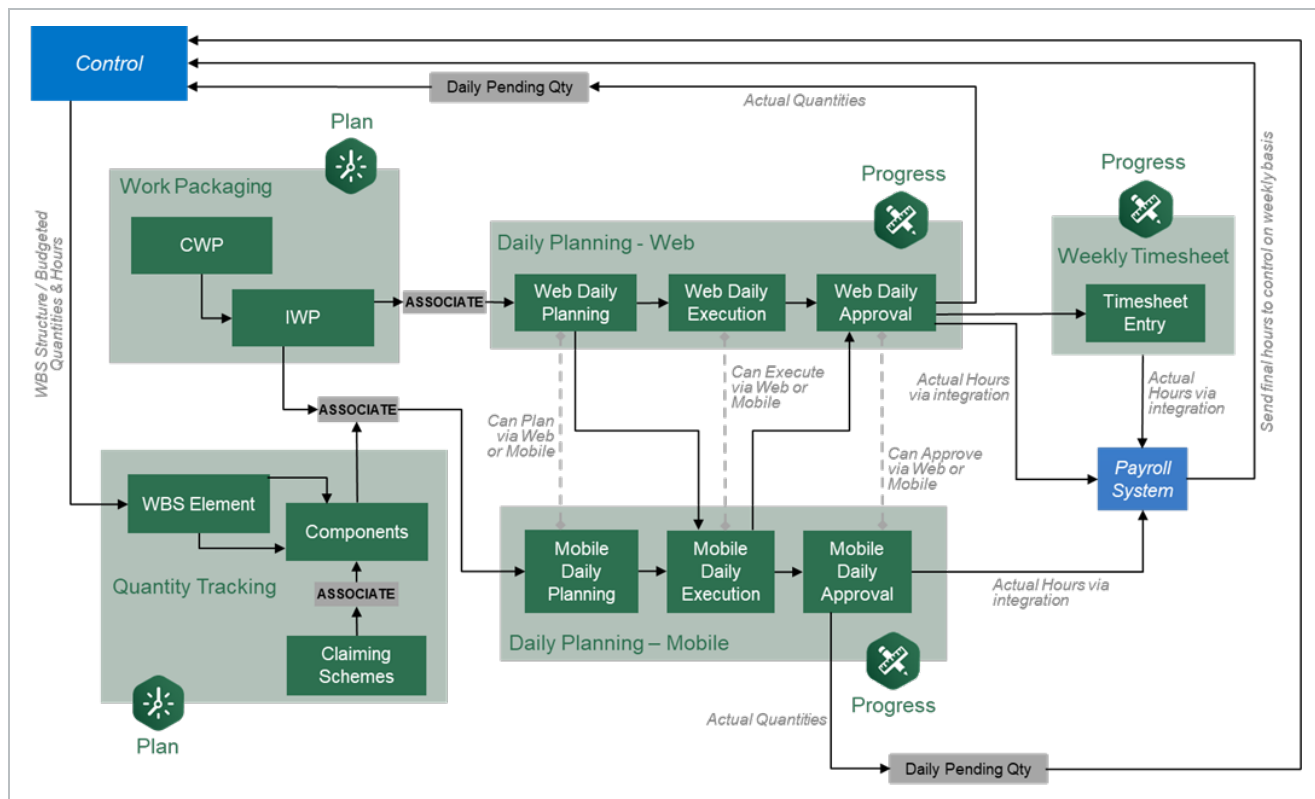
In Work Package Management, you will learn about work plans and work packages in detail, including how to create them and define plan details.

1.1.2.2 Comprehensive Workflow

The diagram below displays both sections of Plan and how they integrate with InEight Progress, InEight Control and your Payroll system.

You will notice the areas where you create associations between work packages and daily plans, work packages and components, and components and claiming schemes.

The details of this workflow and the step by step functions within it will be covered in the remaining lessons of this and the Plan Quantity Tracking module and the Progress module.



Lesson 1 Review

1. Which two of the following are modules in Plan?
 - a. Quantity tracking
 - b. Benchmarking
 - c. Work packaging
 - d. Control
 - e. Reporting
 - f. Daily planning

2. Which one of the following represents the order for breaking down your project scope from larger to smaller pieces within InEight Plan?
 - a. Project > CWA > CWP > IWP
 - b. CWA > IWP > Project > CWP
 - c. Project > Work plan > CWA > CWP
 - d. Project > CWA > IWP > CWP

3. According to the InEight Plan workflow diagram, installation work packages (IWPs) associate with which of the following? (Select all that apply)
 - a. Inspections
 - b. Components
 - c. Web daily planning
 - d. Estimating
 - e. Mobile daily planning
 - f. Payroll

Lesson 1 Summary

As a result of this lesson, you can:

- Describe the two modules of Plan

- Explain the high-level work flow of Plan – Work Packaging

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LESSON 2 – GENERAL NAVIGATION

Lesson Duration: 30 minutes

Lesson Objectives

After completing this lesson, you will be able to:

- Navigate the InEight Plan Work plans page
- Manage columns
- Manage data blocks
- Create viewsets

Lesson Topics

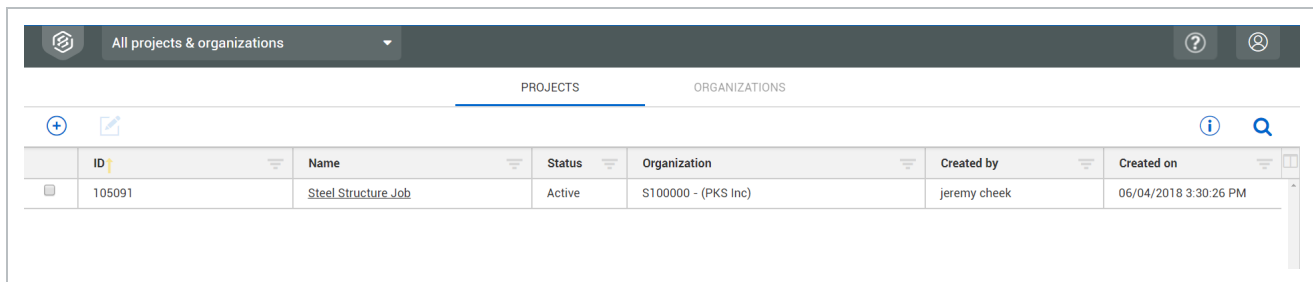
2.1 Page Navigation	21
2.1.1 Construction Work Areas (CWA) Page	25
2.1.2 Construction Work Packages (CWP) Page	26
2.1.3 Installation Work Packages (IWP) Page	26
2.2 Columns	27
2.2.1 Move Columns	27
2.2.2 Sort Columns	27
2.2.3 Filter Columns	28
Exercise 2.1 — Filter Columns	31
2.3 Data Blocks	32
2.3.1 Add Data Blocks	32
2.3.2 Navigate Data Blocks	34
2.3.3 Manage Data Blocks	34
2.4 Viewsets	40

Exercise 2.2 — Create a Viewset	41
Lesson 2 Review	42
Lesson 2 Summary	42

2.1 PAGE NAVIGATION

In this lesson, you will explore the layout and start to navigate around the application.

You access InEight Plan through your web browser. When you first log in, you will land on the **All projects & organizations page** within the **InEight project platform**. Here you can select any your projects.

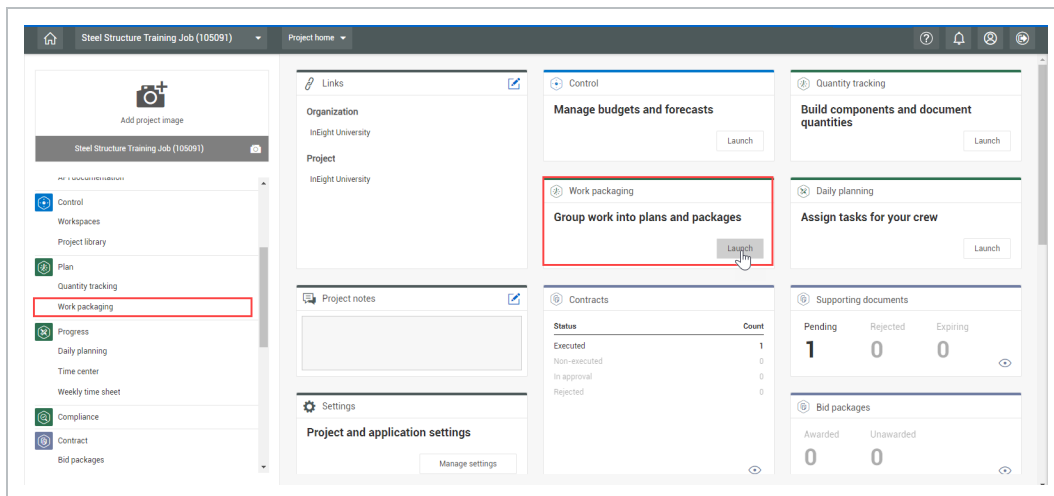


ID	Name	Status	Organization	Created by	Created on
105091	Steel Structure Job	Active	S100000 - (PKS Inc)	jeremy cheek	06/04/2018 3:30:26 PM

From the All projects & organizations page, selecting a project navigates you to the home page for that project. From your project home page, there are two different ways to access the **Work Packaging module** of Plan.

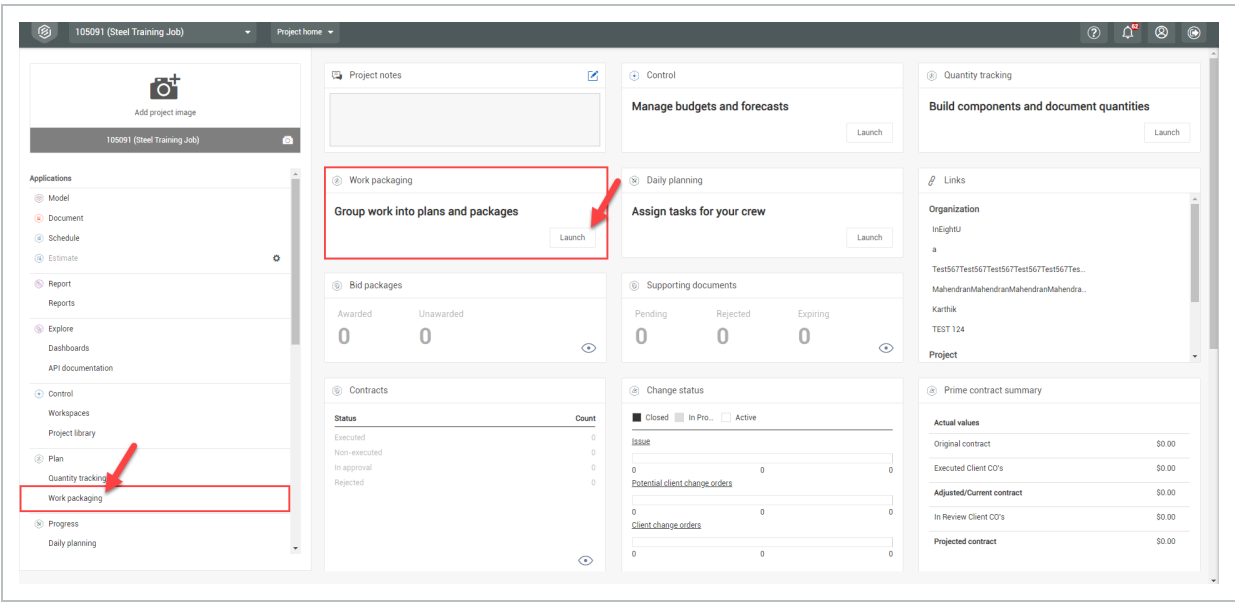
Navigate to the Work Plans Module via the Project Home Page

1. From the All projects & organizations page, select your project.



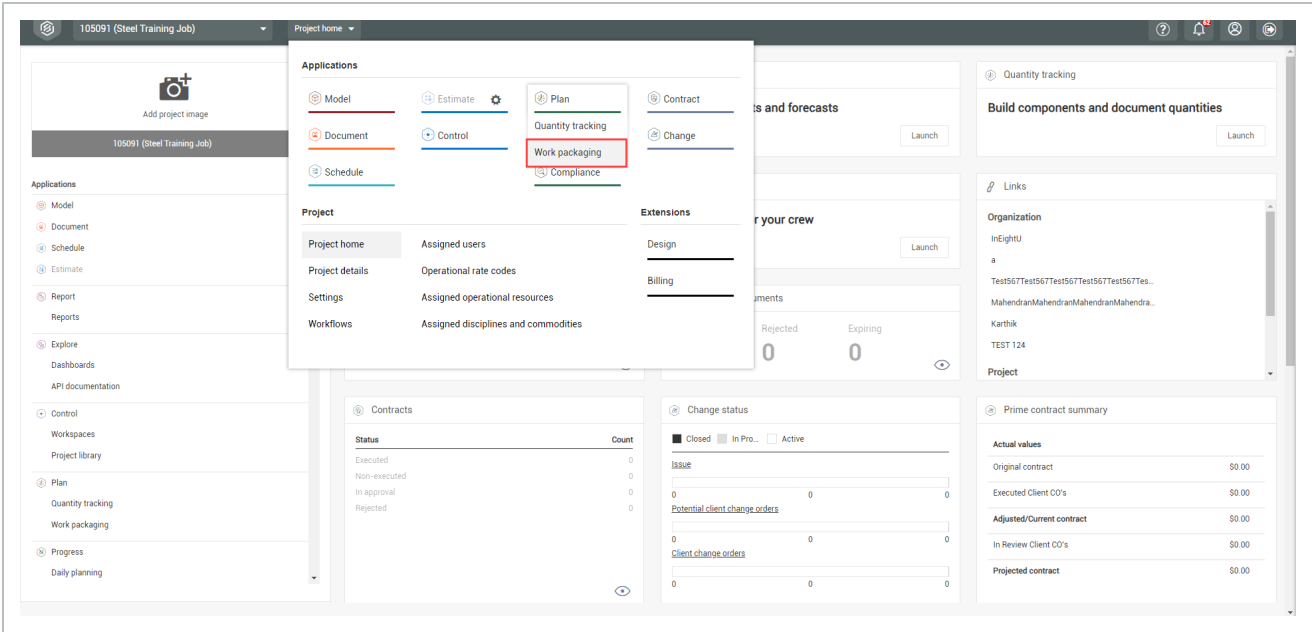
2. Select the Work Packaging module by clicking on the **Work packaging** tile on the right or

selecting **Work packaging** from the side bar menu on the left.



Navigate to the Work Plans Module via the Navigation Bar

From the Projects page, select the **second level drop-down menu**, hover over **Plan**, and then select **Work packaging**.

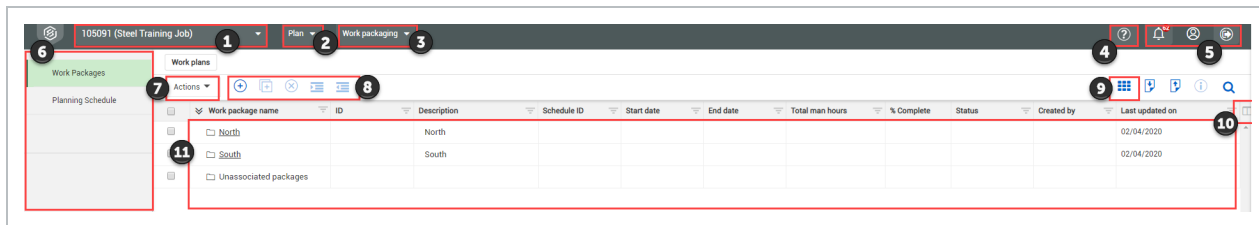


Overview – Work Plans/Packages Page

Title		Description
1	First Level Menu	Shows the selected project and provides access to favorites, All projects and organizations, reports, master data libraries, and suite administration.
2	Second Level Menu	Displays the list of applications (Control, Plan, etc.), and navigates you to other project settings.
3	Third Level Menu	Navigates to individual modules inside each application (e.g., Contract > Bid packages, Plan > Quantity tracking). Options in this menu are dependent upon the application you are currently using.
4	Help Menu	Contains Walkthroughs to walk you step by step through processes within the module.
5	Notifications and User Profile	View notifications, user profile and log out.
6	AWP Panel	Allows you to access work plans (Work Packaging tab) or see planning progress (Planning Schedule tab).
7	Actions Menu	Select available actions for the current register tab you are viewing.

Overview – Work Plans/Packages Page (continued)

Title	Description
8 Toolbar	Contains functions for the page you are on: add, edit, delete, export, import, show details, and search.
9 Block View	View the Work Plans/Work packaging page in a card view layout, the page displays the most recent saved work package, as well as a card for each work package associated with the CWA or CWP in the same order and data as the default grid view.
10 Column Chooser	Allows you to add or hide columns to make the plans/packages list user specific.
11 Work Plans/Packages Register	List of all work plans and packages in your project.



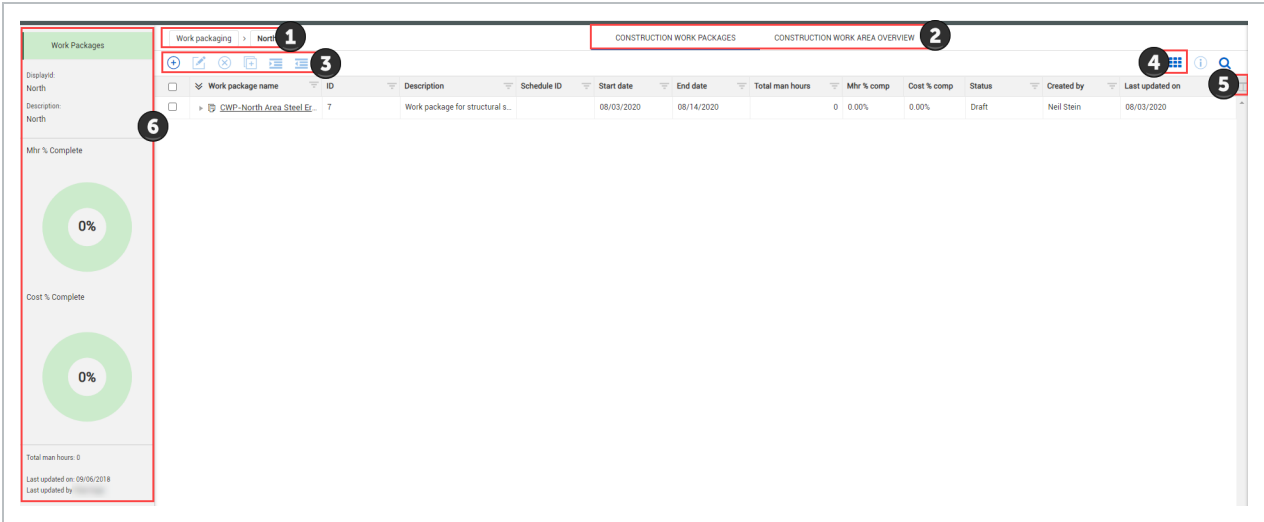
Overview – Area/Construction/Installation Work Packages Pages

Title	Description
1 Breadcrumbs	Navigational links that allow you to track your path from the page you are currently viewing back to the work plans/packages page. Furthermore, identifies what and where you are within a work package.
2 Tabs	Navigate between different functions on a page. The blue line indicates what tab you are currently on.
3 Toolbar	Contains functions for the page you are on: add, edit, delete, export, import, show details, and search.
4 Block View	View the Work packages page in a card view layout, the page displays the most recent saved work package, as well as a card for each work package associated with the CWA or CWP in the same order and data as the default grid view.

Overview – Area/Construction/Installation Work Packages Pages (continued)

Title		Description
5	Column Chooser	Add or hide columns to make the plans/packages list user specific.
6	Side Panel	Contains a brief summary of your CWA, CWP, or IWP, fed from their overview and workspace tabs as well as associated components. Percent complete charts are shown for man-hours and cost in dollars.

2.1.1 Construction Work Areas (CWA) Page



2.1.2 Construction Work Packages (CWP) Page

Work Packages

Name: CWP-North Area Steel Erection
Number: 7
Description: Work package for structural steel erection
Mhr % Complete
0%
Cost % Complete
0%
Schedule ID
Start date: August 3, 2020
End date: August 14, 2020
Status: Draft
Superintendent: [User]
Field Engineer: [User]
Planner: [User]
Total man hours: 0

Work packaging > North > CWP-North Area Steel Erection

WORK PACKAGES

CONSTRUCTION WORK PACKAGE OVERVIEW

WORKSPACE

GENERAL CONSIDERATIONS

DOCUMENTS

Work package name

ID

Description

Schedule ID

Start date

End date

Total man hours

Mhr % comp

Cost % comp

Status

Created by

Last updated on

☐	IWP-Steel Erection - Module 001	8	Steel erection of Module 001		08/03/2020	08/07/2020		0	0.00%	0.00%	Draft	Neil Stein	08/03/2020
--------------------------	---------------------------------	---	------------------------------	--	------------	------------	--	---	-------	-------	-------	------------	------------

6

0%

0%

Schedule ID
Start date: August 3, 2020
End date: August 14, 2020
Status: Draft
Superintendent: [User]
Field Engineer: [User]
Planner: [User]
Total man hours: 0

2.1.3 Installation Work Packages (IWP) Page

Work Packages

Name: IWP-Steel Erection - Module 001
Number: 8
Description: Steel erection of Module 001
Mhr % Complete
0%
Cost % Complete
0%
Schedule ID
Start date: August 3, 2020
End date: August 7, 2020
Status: Draft
Superintendent: [User]
Field Engineer: [User]
Executor: [User]
Total man hours: 0

Work packaging > North > CWP-North Area Steel Erection > IWP-Steel Erection - Module 001

OVERVIEW

WORKSPACE

CONSTRAINT MANAGEMENT

DOCUMENTS

Overview

IWP ID: 8

IWP name: IWP-Steel Erection - Module 001

CWP: CWP-North Area Steel Erection

CWA: North-North

Description: Steel erection of Module 001

Scope of work

Location: [Text]

Discipline: Metals

Type of work: Steel Erection

Risk: Medium

Schedule ID: [Text]

Schedule name: [Text]

Scheduled start date: Mon, 3 Aug 2020

Scheduled end date: Fri, 7 Aug 2020

Status: Draft

Last updated by: [User]

Last updated on: 08/03/2020

TIP

The **Construction Work Packages/Work Packages** tab displays all the work plans that *you* have created or are assigned to as the Superintendent, Engineer, or Foreman.

2.2 COLUMNS

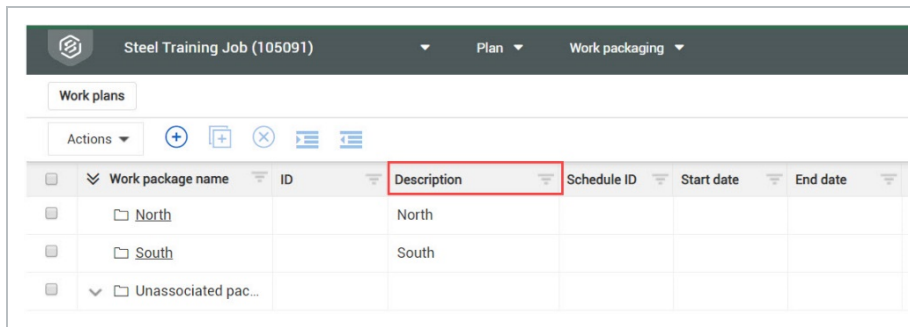
Customize columns according to your preferences from the Work plans/packages page. Changes you make to the placement of your columns will be retained the next time you access any page you have customized.

2.2.1 Move Columns

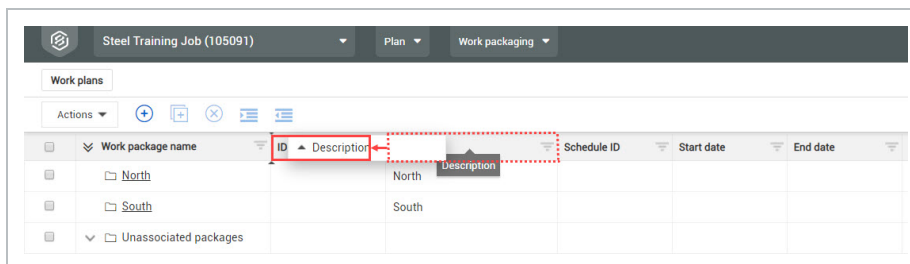
Drag and drop to move a column from one place to another to customize your view.

Move Columns

1. On the Work plans/packages page, click on and hold a **column header**.



2. Drag and drop the column in a new location.

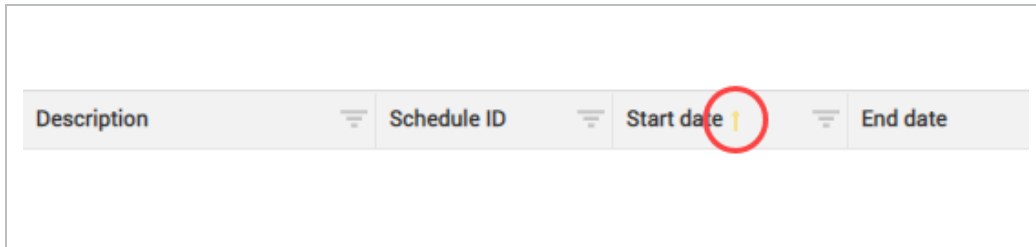


2.2.2 Sort Columns

Sort in ascending or descending (both for alpha and numeric fields) order on any column by clicking one time on the column header.

Sort Columns

1. On the Work plans/packages page, click on any column header to sort the column in ascending order.
 - Notice the yellow “up arrow” designating you are sorting in ascending order



Description	Schedule ID	Start date ↑	End date
-------------	-------------	--------------	----------

2. Click on a column header again (a second time) and the column will filter in descending order.
 - Notice the yellow arrow is now pointing down

2.2.3 Filter Columns

Filter columns as a way to see relevant information pertaining to your specific needs.

Filter Columns

1. On the Work plans page, click the **filter pyramid** of any column header.
2. In the resulting drop-down list, select an **operator**.

The screenshot shows a filter dropdown menu for the 'Scheduled start' column. The menu is titled 'Show items with value that:' and contains a list of comparison operators: 'Is equal to', 'Is not equal to', 'Is after or equal to', 'Is after', 'Is before or equal to', and 'Is Before'. The 'Is equal to' option is currently selected and highlighted. Below the list are two buttons: 'Clear' and 'Filter'.

3. In the first search box, enter a **date**.

The screenshot shows the filter interface with a date entered in the first search box. The 'Scheduled start' column is selected, and the filter is set to 'Is equal to'. The date '6/18/2018' is entered in the search box, which is highlighted with a red border. A calendar icon is visible next to the date input. Below the search box is an 'And' dropdown menu, followed by another 'Is equal to' dropdown menu and an empty search box with a calendar icon. At the bottom are 'Clear' and 'Filter' buttons.

4. Click **Filter**.

- The table now only shows items that qualify for your filter
- Notice that the filter pyramid is now in yellow indicating that this column is filtered

Steel Structure Job (105091)PlanWork packaging

Work plansMY WORK PLANSALL

Actions

ID	Description	Name	Scheduled start	Scheduled finish
4972	Work plan for the structural steel of the North area	North Area Steel Erection Work Plan - 001	06/18/2018	06/29/2018
3996		South Area Steel Erection Work Plan - 001	06/18/2018	06/29/2018
4758		Structural Steel Mobilization	06/18/2018	06/19/2018

5. Select the **filter pyramid** again. Hover over **Filter**, then click **Clear** to remove your filter.

Scheduled startScheduled finish

06/18/2018

06/18/2018

06/18/2018

Show items with value that:

Is equal to

6/18/2018

And

Is equal to

Clear

Filter

TIP

Apply multiple rules to your filter. For example, setting a “Contains” or “Is equal to” filter for your column would allow you to bring in two distinct results at once.

Exercise 2.1 — Filter Columns

In this exercise, you will practice filtering columns from the All tab on the Work plans page.

1. Find a discipline by using the column sort function.

2. Remove the columns you do not need in your view.

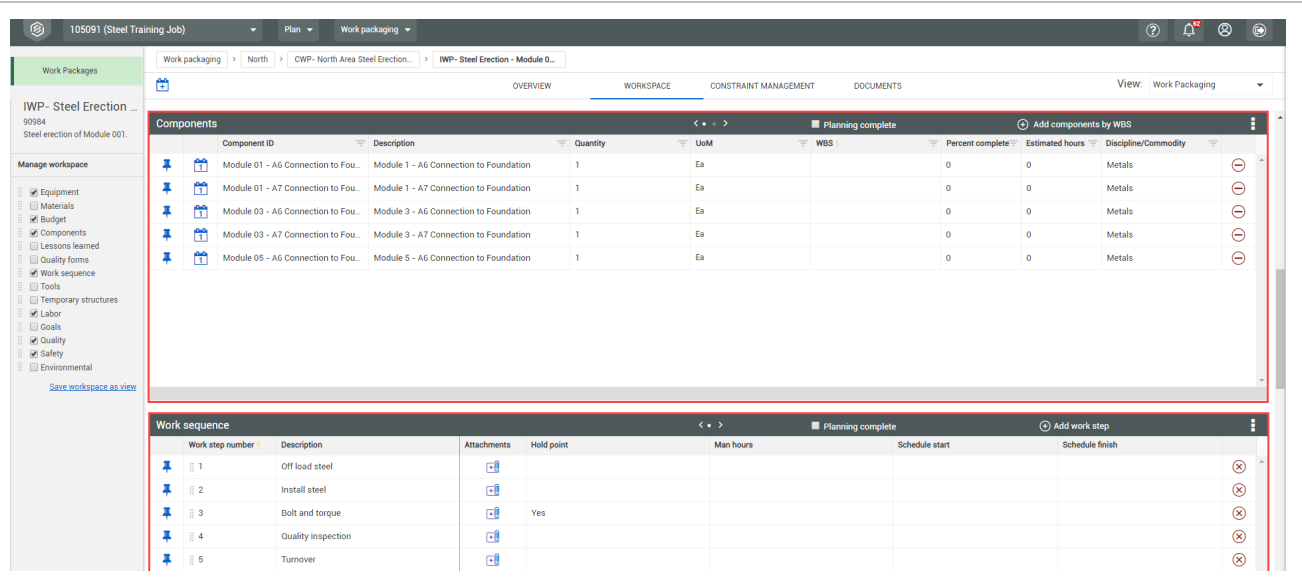
3. Apply a filter you would use to make the data more relevant.

Congratulations, you have completed this exercise!

2.3 DATA BLOCKS

On the Workspace tab of an opened installation work package, the work package details are contained within data blocks. Each data block is a set of columns grouped together based on categories of information. Data blocks help you to organize and manage all the columns on a page.

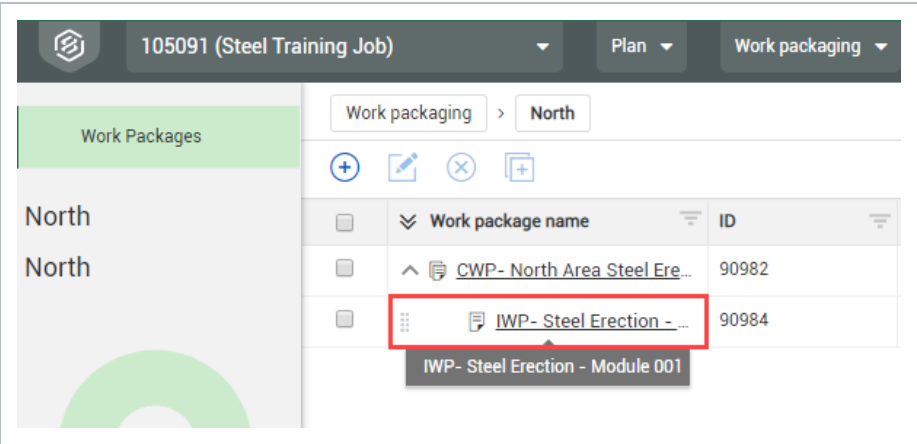
Data blocks are customizable, and can be viewed moved up or down in the register. Sort and filter data block information to organize your view. The information in each data block is displayed in a grid like format, maintaining a spreadsheet look and feel.



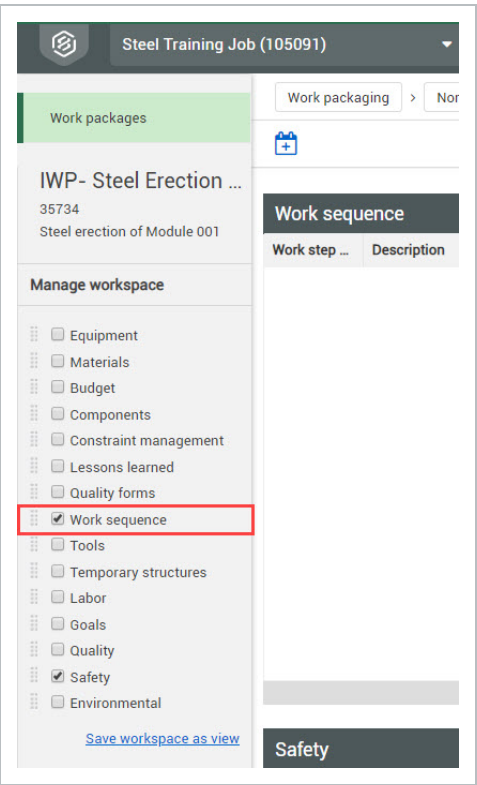
2.3.1 Add Data Blocks

Add Data Blocks

1. From the Work plans/packages page, select a **hyperlink** under the ID Column for an installation work package (IWP).



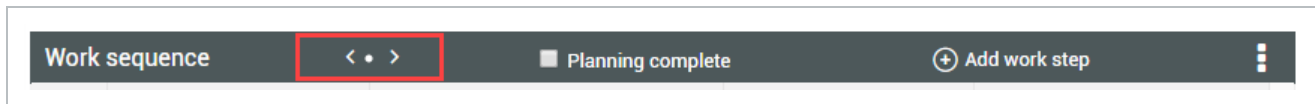
- 2. Once you are in an individual work plan, select the **Workspace tab**.
- 3. From the **Manage workspace slide out panel** on the left, select data blocks to include in your workspace.



NOTE Scroll up and down between the data blocks to view all your data blocks.

2.3.2 Navigate Data Blocks

Use the arrows at the top of your data block to view more columns associated with each data block that are not in the current pane.

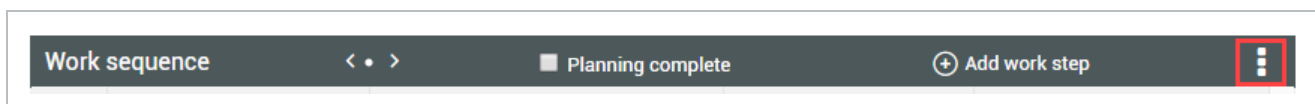


The number of dots between the arrows represent how many panes are in that data block.

2.3.3 Manage Data Blocks

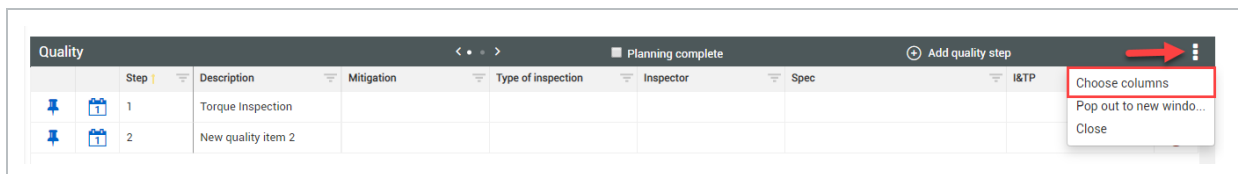
2.3.3.1 Context Menu

The Context Menu allows you to customize the order of columns in each data block. You can also use the Context Menu to add or remove columns from a data block.

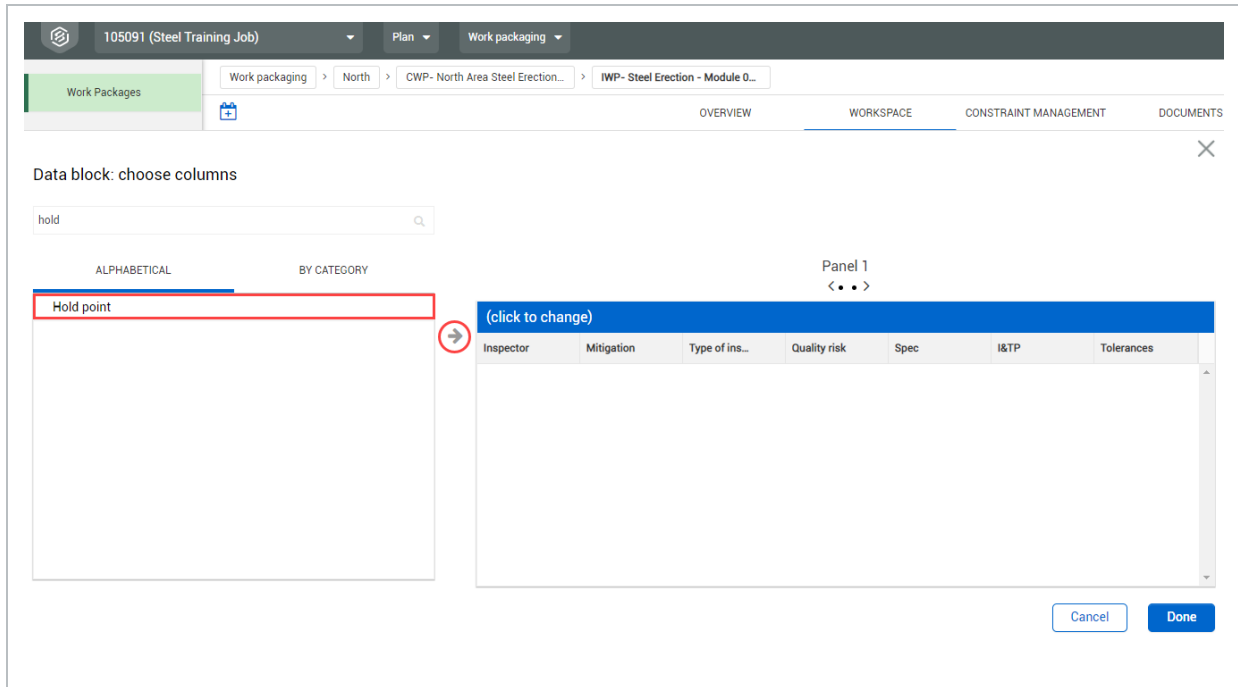


Use the Context Menu

1. On your data block, click on the **Context Menu icon**.
2. Select **Choose columns** from the drop-down menu.



3. On the resulting slide out panel, search by name or category for a column. Then, select your **column** from the list and click on the **right arrow** to add that column to your data block on the right.

**TIP**

You can also drag and drop columns into your data block. Once in your data block, you can reorder columns by dragging and dropping.

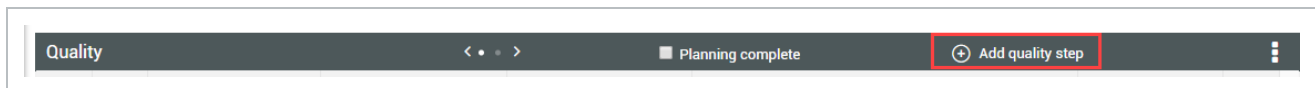
- Repeat step three as needed. When finished, click **Done**.

NOTE

Each type of data block has its own unique default settings. Default settings include specific locked columns and total number of columns and panels.

2.3.3.2 Resource Button

Uniquely named for each data block, the Resource Button allows you to add information or resources to your data block.



2.3.3.3 Daily Plan Icon

The Daily Plan icon is a shortcut that allows you to create daily plans directly from an IWP by selecting which details to include in a daily plan.

Quality				
		Step ↑	Description	Hold point
		1	Torque Inspection	Yes
		2	New quality item 3	
		3	New quality item 2	

Clicking on this icon will open a slide out panel to the right where you can view the items you've selected to include in your daily plan and continue onto the creation window.

Work packaging > North > CWP- North Area Steel Erection... > IWP- Steel Erection - Module 0...

OVERVIEWWORKSPACECONSTRAINT MANAGEMENTDOCUMENTS

Quality

Step ↑

Description

Hold point

Quality risk

Mitigation

Type of inspection

Inspector

Spec

		1	Torque Inspection	Yes				
		2	New quality item 3					
		3	New quality item 2					

Safety

Step ↑

Description

Safety risk

Mitigation

Required safety ite

		1	Crush points		
		2	Watch for falling objects		

Create daily plan

Labor

Equipment

Quality

Safety

Environmental

Torque Inspection

Clear

Next

×

Create daily work plan

1 Plan details

2 Confirm resource

3 Tool box talks

* Plan date

* Plan name

Shift

First Shift

Work plan/package ID - Name

90984 - IWP- Steel Erection - Module 001

Planner notes

Location

Hint type "133" or "Site"

Approvers (1 Required)

No approvers added

+ Add approver

Executors (0 Required)

No executors added

+ Add executor

Cancel

Next

Add and Manage Data Block Contents

1. On your data block, click on the **Resource** button to add an item.

Quality									
Planning complete									
Add quality step									
Step	Description	Hold point	Quality risk	Mitigation	Type of inspection	Inspector	Spec	I&TP	
	New quality item 3								⊗
1	Torque inspection	Yes							⊗
2	New quality item 2								⊗

2. Rename your items by clicking on the item **Description** cell and entering a new name.

Quality					
		Step ↑	Description	Hold point	Quality risk
			New quality item 3		
		1	Tor New quality item 3	Yes	
		2	New quality item 2		

3. Reorder your items by click on the item **Step** cell and adding or changing the order number.

TIP

You can sort and filter your data block columns.

Quality				
		Step ↑	Description	Hold point
		1	Torque Inspection	Yes
		2	New quality item 3	
		3	New quality item 2	

NOTE

Delete an item by selecting it then clicking on the red "x" to the right.

		1	Torque Inspection	Yes	
		2	New quality item 3		
		3	New quality item 2		

2.3.3.4 Pin Icon

The Pin icon allows to flag critical components that will hold up the start of the operation if not addressed. When pinned, an item will automatically appear under the Constraint Management tab of the Work plans/packages page. There, you can review and further manage all pinned items.

Quality			
	Step	Description	Mitigation
	1	Torque Inspection	
	2	New quality item 2	

Work sequence							
■ Planning complete							
Add work step							
	Work step number	Description	Attachments	Man hours	Schedule start	Schedule finish	
	1	Off load steel					
	2	Install steel					
	3	Bolt and torque					
	4	Quality inspection					
	5	Turnover					

- Notice that when you pin an item, the data block row turns blue

Constraint management							
■ Planning complete							
Add constraints							
Item number	Description	Category	Responsibility	Due date	Status		
001	Bolt and torque	Work Sequence			Open		

TIP

To unpin an item, go to the Constraint Management tab, and delete the item. Changing the status from "open" to "closed" will not unpin or remove the item from the Constraint Management tab.

NOTE

You can also manually add constraints under the Constraint Management tab.

2.3.3.5 Completion Indicator

The Completion Indicator allows you to indicate which data blocks are completely planned.

Quality			
■ Planning complete			
Add quality step			

As you check off data blocks, you can track your planning progress from the Planning Schedule tab on the AWP panel (Work plans/packages page of Plan Work Packaging).

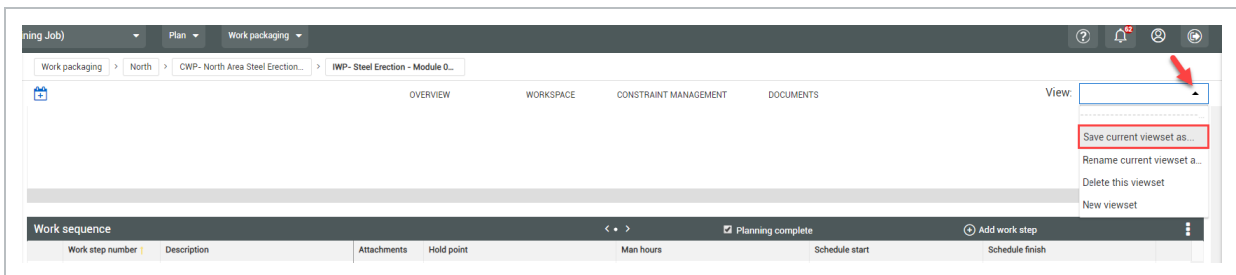
2.4 VIEWSETS

Create a viewset, or saved view, of your data block workspace to quickly revert back to.

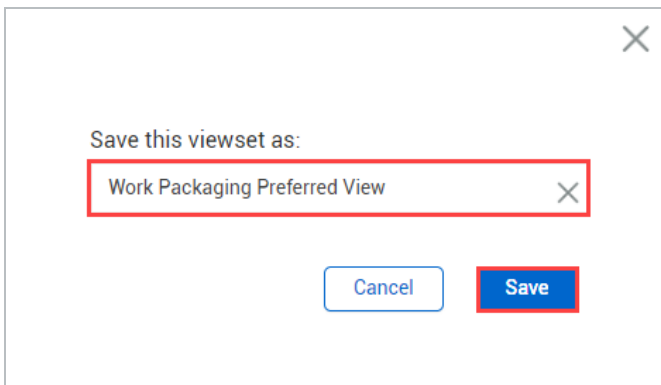
NOTE Follow these same steps to save a viewset in Plan Quantity Tracking.

Create a Viewset

1. On the Workspace tab of your installation work package, select the **View** arrow.
2. Select **Save current viewset as** from the drop-down list.



3. In the resulting window, enter a name and click **Save**.



NOTE Each viewset is user-specific and can be used from plan to plan.

Exercise 2.2 — Create a Viewset

Now that you have learned some of the basics of navigating in InEight Plan, from the Work plans/packages page, create an installation work package viewset that you would use.

1. Select the data blocks you might need. (e.g., Labor Equip, and Budget).

2. Select the desired columns you want to see in each data block.

3. Save your view.

Congratulations, you have completed this exercise!

Lesson 2 Review

1. How do you know which project you are working in?
 - a. Breadcrumbs
 - b. Navigation bar – First level menu
 - c. Notifications and User profile

2. You CANNOT sort and filter columns if they are in a data block. Only on a register page.
 - a. True
 - b. False

3. From where can you customize the order of columns in each data block?
 - a. Context menu
 - b. Customization page
 - c. Data block navigation
 - d. Settings menu

4. On the Workspace tab of an installation work package, to save the data blocks you have selected to display on the page, you can create a:
 - a. Viewset
 - b. Snapshot
 - c. Backup
 - d. Carbon copy

Lesson 2 Summary

As a result of this lesson, you can:

- Navigate the InEight Plan Work plans page
- Manage columns

- Manage data blocks
- Create viewsets

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LESSON 3 – WORK PACKAGE MANAGEMENT

Lesson Duration: 60 minutes

Lesson Objectives

After completing this lesson, you will be able to:

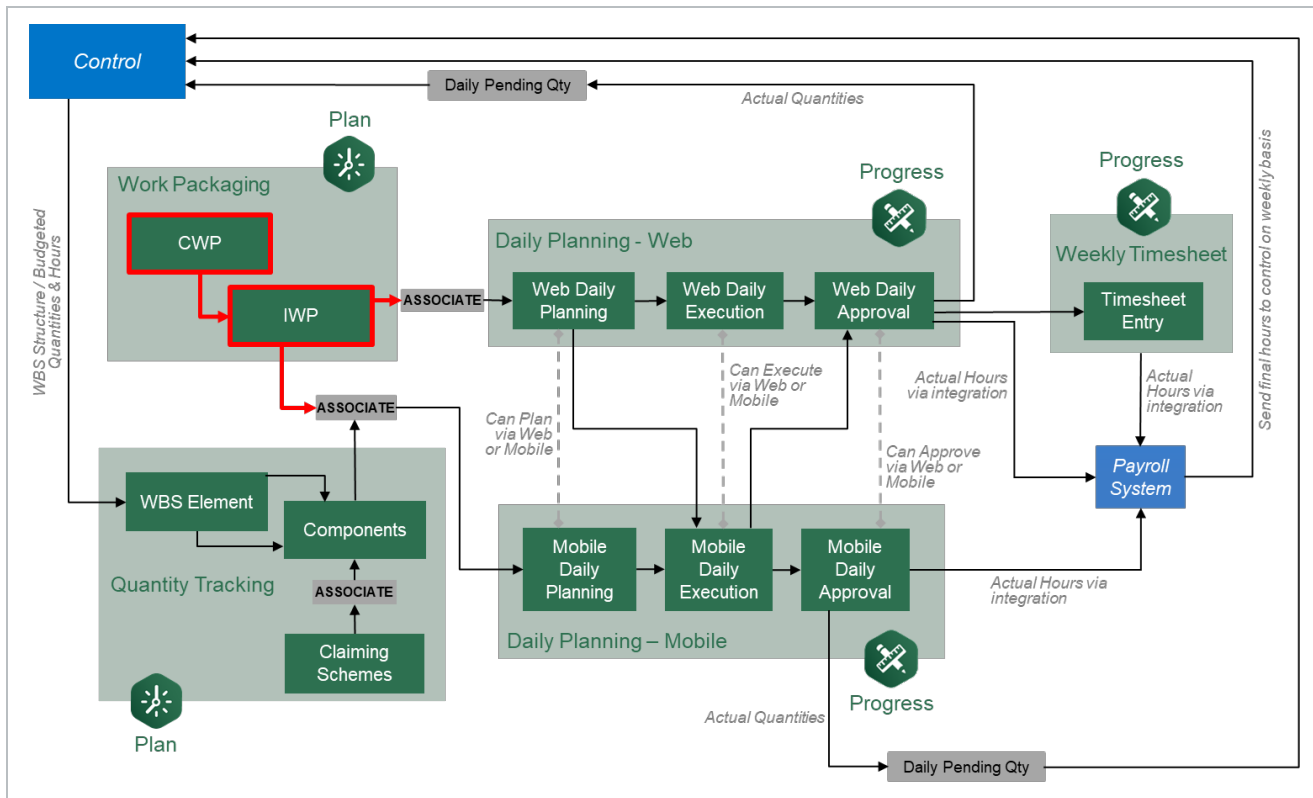
- Explain how to manage work packages
- Create a construction work package
- Create an installation work package
- Edit and review work package details
- Import work packages

Lesson Topics

3.1 InEight Plan Workflow – Work Package Management	47
3.2 Work Package Management Overview	47
3.2.1 What is Advanced Work Packaging (AWP)?	47
3.2.2 Work Packages	48
3.3 Work Package Creation	51
3.3.1 Create a Construction Work Package (CWP)	51
3.3.2 Edit Work Packages	53
3.3.3 Copy Work Plans	55
3.3.4 Create an Installation Work Package (IWP)	57
3.3.5 Group Work Packages	59
3.4 Installation Work Package Details	61

3.4.1 Work Package Overview Tab	61
3.4.2 Installation Work Package Workspace Tab	62
3.4.3 Installation Work Package Constraint Management Tab	65
3.4.4 Installation Work Package Documents Tab	66
3.5 Work Package Import	66
3.5.1 Import Template	66
Exercise 3.1 — Enter Work Package Details	70
Lesson 3 Review	71
Lesson 3 Summary	72

3.1 INEIGHT PLAN WORKFLOW - WORK PACKAGE MANAGEMENT



3.2 WORK PACKAGE MANAGEMENT OVERVIEW

3.2.1 What is Advanced Work Packaging (AWP)?

Advanced Work Packaging (AWP) is a standardized way to plan the execution of a construction project including design, procurement, and installation. AWP aims to change the planning process to be execution driven: approaching the beginning of your construction project with the end in mind. In the past, planning was siloed, Engineering first, then Procurement, and finally Construction. AWP starts with the priorities of Construction and or commissioning and works backwards.

The Work Packaging module of InEight Plan provides an organized platform to break down your project into manageable scopes of work. Work packages can be developed to include all items necessary to complete the scope as well as all constraints that would impede progress.

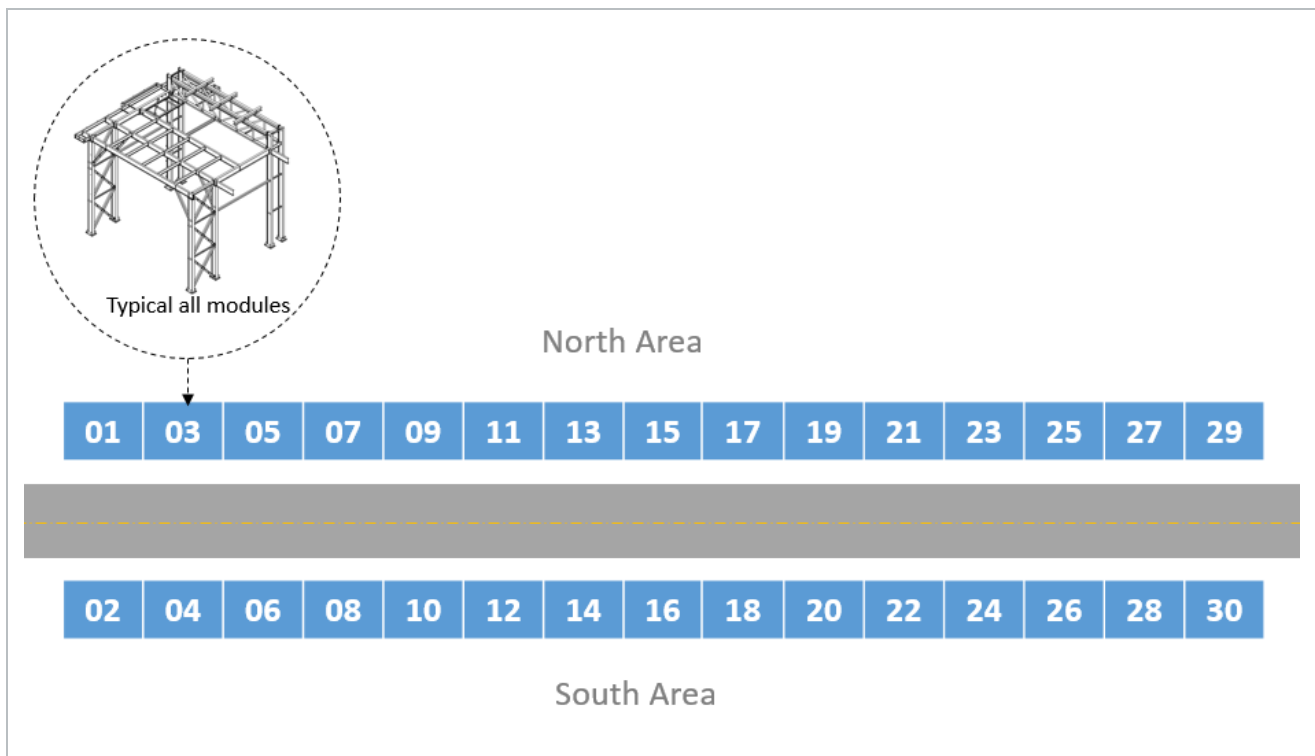
3.2.2 Work Packages

There are three levels of work package definition that can be used in InEight Plan:

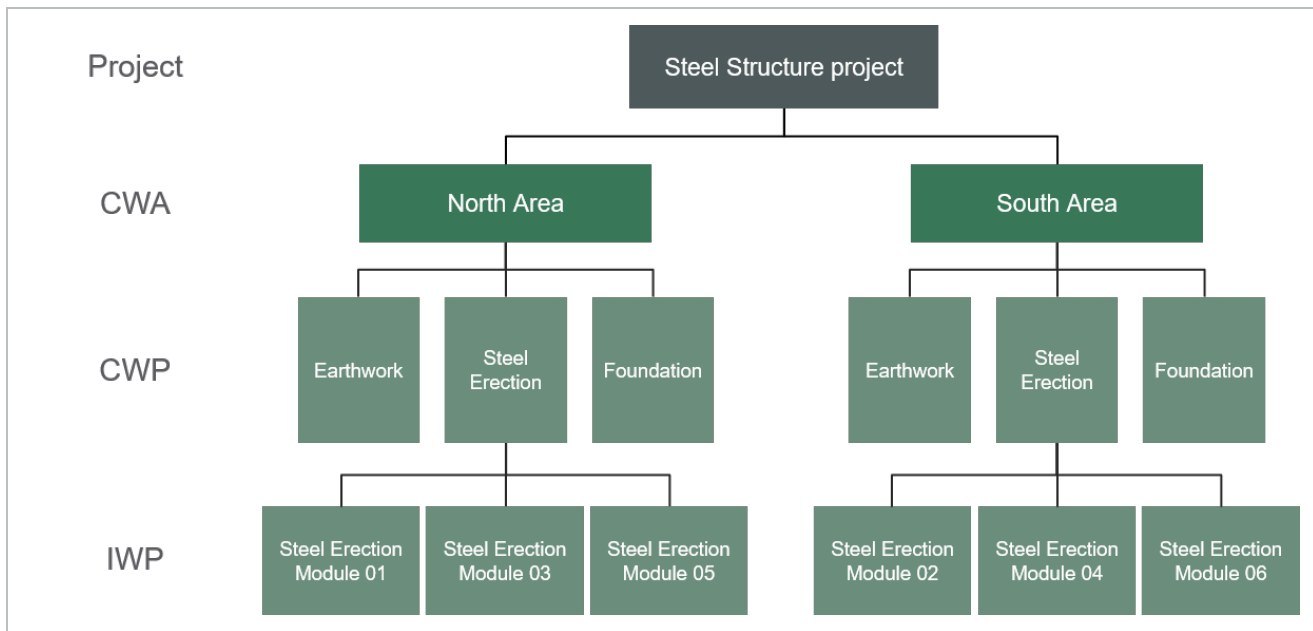
- Construction Work Area (CWA)
- Construction Work Package (CWP)
- Installation Work Package (IWP)

Scenario

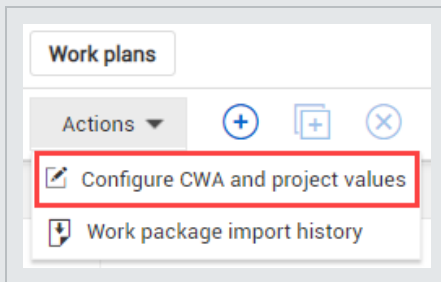
Imagine you are working on a project with the following scope: 30 modules in which you need to complete earthwork, foundations, and erect the steel support structures.



Using the scenario above as an example, assume that you initially break the project into two construction work areas (CWA): North Area and South Area. You break each area of work into three different construction work packages: Earthwork, Foundation, and Steel Erection. From there, you can break each construction work package into multiple installation work packages so you can plan at a detailed level and identify the specific constraints, components, safety and quality risks.

**TIP**

Construction work areas (CWAs) are created for the project or organization in the **Configure CWA and project values** page prior to defining construction work packages.



3.2.2.1 Construction Work Package (CWP)

A construction work package (CWP) defines a logical and manageable division of work within the construction scope. CWPs are aligned with the project execution plan (which includes the construction plan) and the WBS. The division of work is defined such that CWPs do not overlap within a discipline. CWPs are to be measurable and in alignment with project controls. CWPs are the basis for the development of detailed installation work packages. They should also align with engineering and procurement work packages. A typical CWP includes the following:

- Safety requirements
- At least one EWP
- Schedule

- Budget (work hours/cost/productivity)
- Environmental requirements
- Quality requirements
- Special resource requirements

A CWP may be divided by area, system, or as otherwise determined by the project (construction) execution plan. In general, it is better to develop CWPs by discipline. A large project will likely contain multiple CWPs. CWPs can be the basis of contractual scopes of work. A contractual scope may contain more than one CWP. Complete specifications of CWPs grow over time to include productivity factors, detailed cost reports, and other considerations.

3.2.2.2 Installation Work Package (IWP)

An installation work package (IWP) is the deliverable that enables a construction work crew to perform work in a safe, predictable, measurable, and efficient manner. An IWP is scoped to be manageable and “progressable”; it is typically of limited size such that a crew can complete the work in about a week. An IWP contains the necessary documentation supporting workface execution. IWPs should be approved by the responsible stakeholders, and all constraints should be completed before issuance to the field. A typical IWP includes the following:

- Work package summary – inclusive of description of work, location, system or facility code, originator, contact information, sequenced work steps, reference documents, estimate of work hours and quantities, cost codes, witness or hold points, and special comments quantity work sheet
- Safety hazard analysis, specific to tasks in work package
- Material Safety Data Sheet
- Drawings (engineering and vendor design)
- Specifications (engineering and vendor design)
- Change documents (i.e., field change request, deficiency report/non-conformance report and design change notice)
- Manufacturer’s installation instructions model shots
 - Bills of Materials
 - Required tools
 - Installation test results forms
 - As-built documentation

- Inspection checklists
- Completion verification signatures

All elements necessary to complete the scope of the IWP should be organized and delivered before work is started. As the originator, you should cover the work with the responsible safety, quality, superintendent, and craft personnel in a preparatory meeting, with special focus on anticipated constraints.

Generally, the scope of work associated with the IWP should be small enough that it could be completed by a single foreman and crew within a pre-defined block of work hours. Work hour blocks should be between 500 and 1,000 hours. An IWP contains all applicable and pertinent documents in support of safe and efficient installation of a specific portion of a system by a given trade. These documents are written specifically for the crew performing the activity.

3.3 WORK PACKAGE CREATION

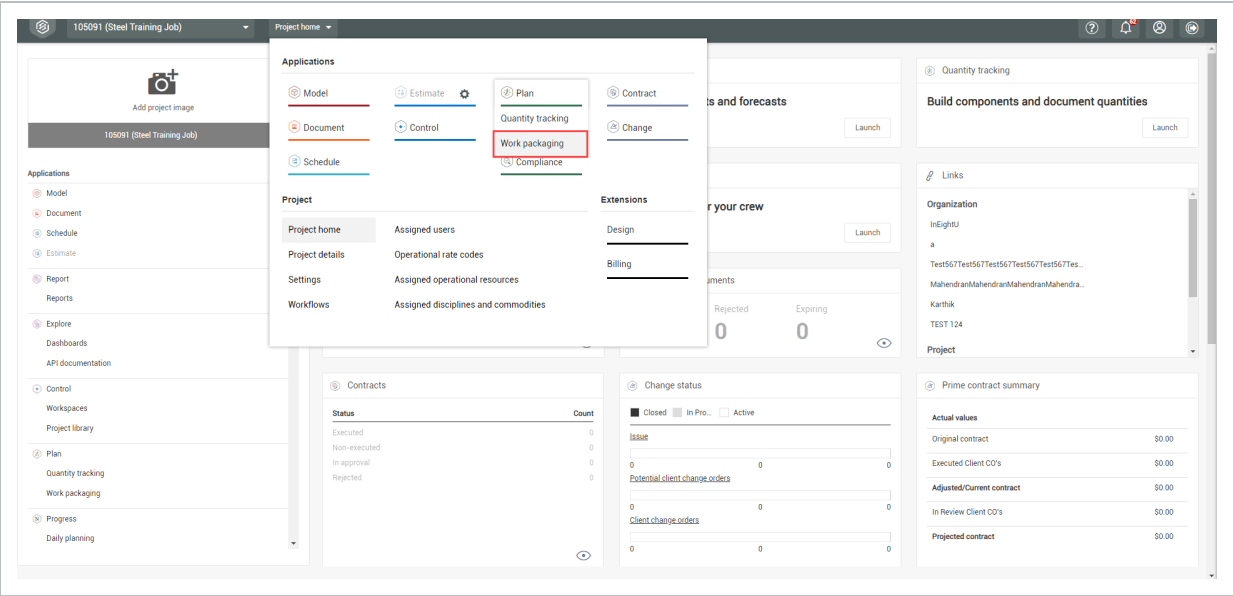
The first step in utilizing the Work Packaging module is to set up your work package structure.

3.3.1 Create a Construction Work Package (CWP)

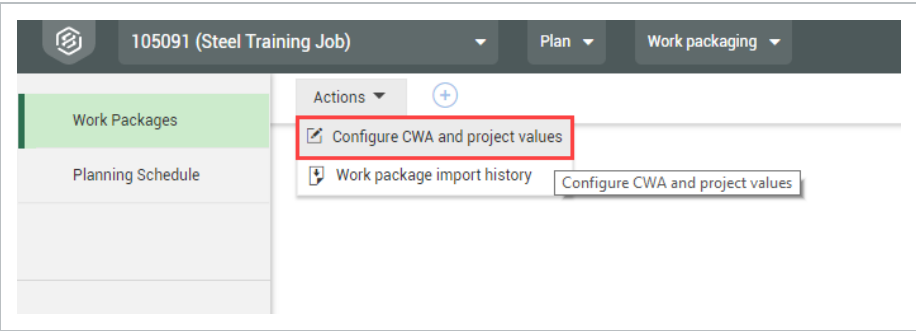
The following steps walk you through creating a construction work package.

Create a Construction Work Package (CWP)

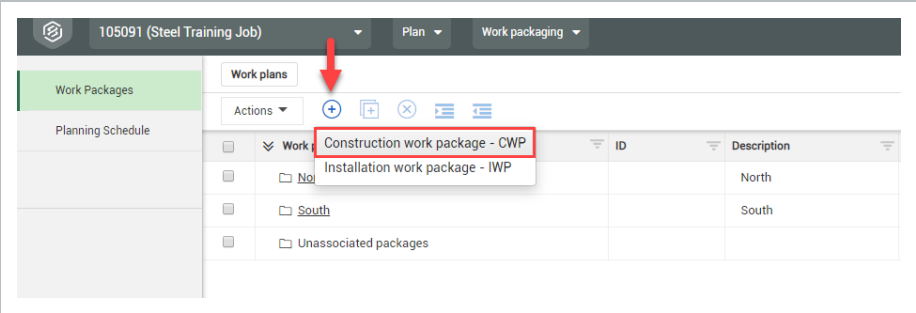
1. From your project's home page, navigate to the **Work packaging module**.



- 2. Click on the **Action menu** and select **Configure CWA and project values** from the drop-down list.



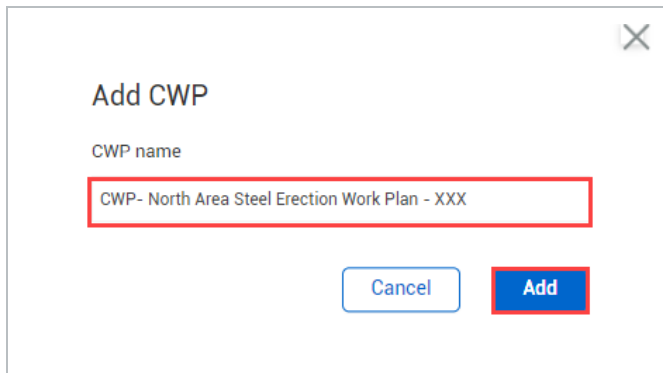
- 3. Click on the **Add icon** on the left toolbar and select **Construction work package – CWP** from the drop-down list.



TIP

Construction work packages and installation work packages can also be created within the construction work areas, for example the North construction work area, by clicking on the North construction work area folder then select the add button.

4. In the new dialog box, name your CWP.



The 'Add CWP' dialog box is shown. It has a title bar with a close button. Below the title, there is a label 'CWP name' and a text input field containing 'CWP- North Area Steel Erection Work Plan - XXX'. At the bottom, there are two buttons: 'Cancel' and 'Add'.

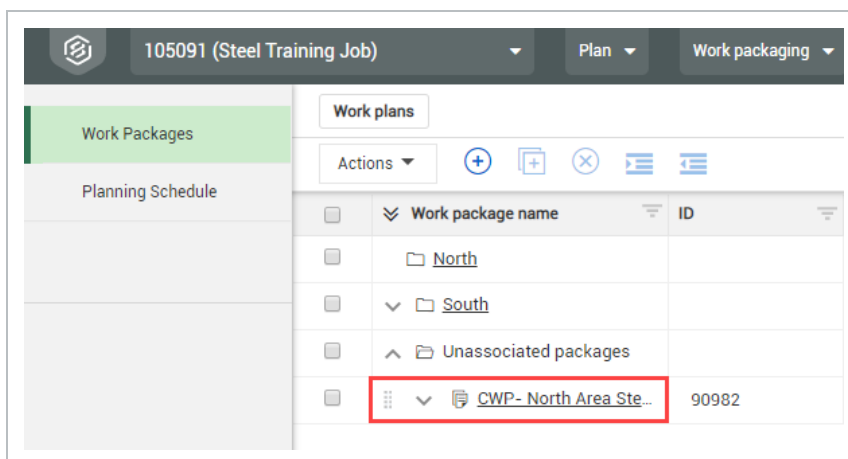
NOTE

Note that the CWP name automatically begins with “CWP-” by default. You can erase it.

5. Click **Add**.

NOTE

Your created CWP will be located in the **Unassociated packages** folder by default when you create them outside of a construction work area folder.



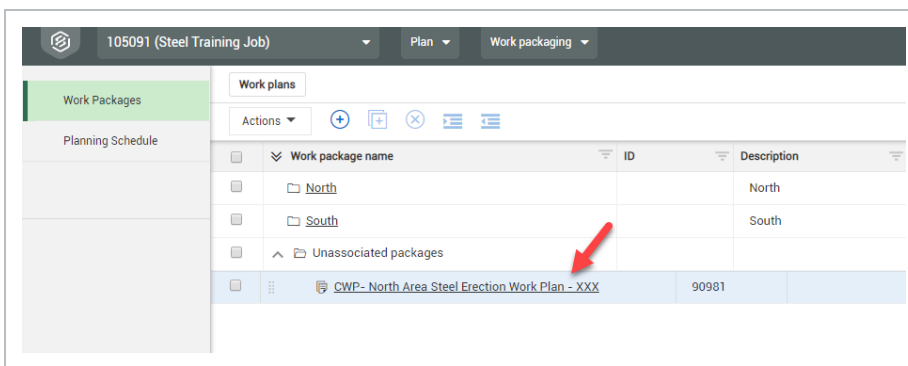
3.3.2 Edit Work Packages

After creating the work package, you may need to go in and edit the details. This includes:

- Schedule start and finish dates
- CWP Description
- CWA description and ID
- Plan Status
- Other fields

Edit a Work Package

1. From the Work plans/packages page, select the **hyperlink ID** on your newly created package.



2. Select the **Construction Work Package Overview** tab.
3. Under CWP description, enter a description.
4. In Start Date, select a date.
5. In End Date, select a later date.
6. Select an Engineer.
7. Select a Planner.
8. Select a Superintendent.

TIP

The Engineer, Superintendent, and Planner fields are validated fields and will bring up a list of people from which to select, once you enter a character.

9. Now that you have all the CWP overview details, you can go back to the Work plans/packages page by selecting **Work packaging** in the breadcrumbs.

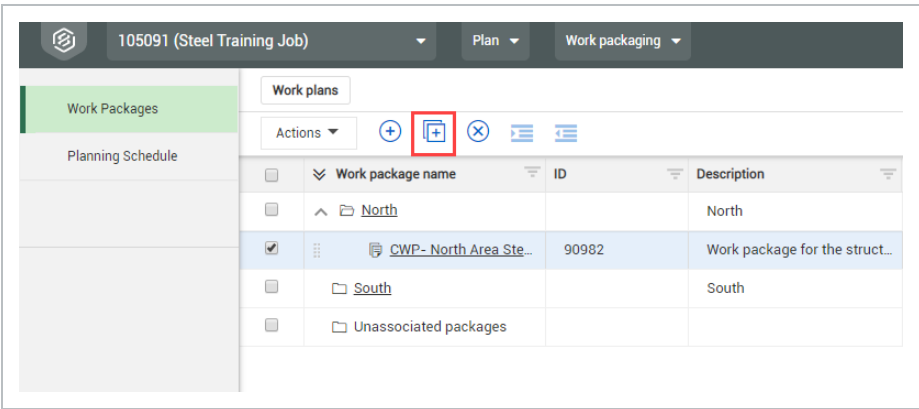
3.3.3 Copy Work Plans

You may need to create the exact same work package for a new area with only a few small changes. Instead of repeating the entire process of creating a new work package, your best choice would be to create a work plan from an already existing one, making the few small changes as necessary.

Copy a Work Package

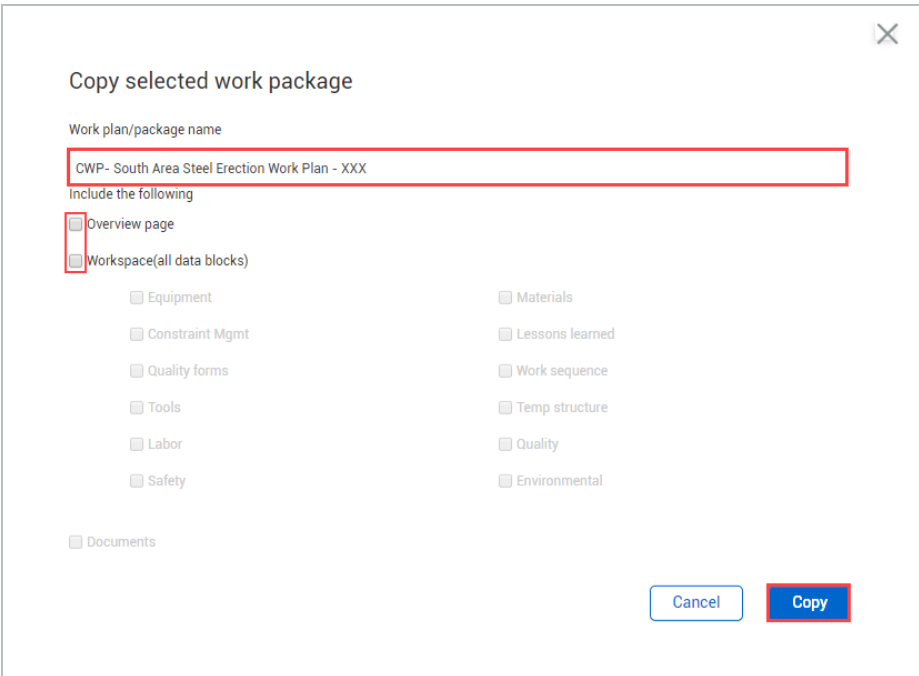
1. On the Work plans/packages page, select your previously created work plan, then select the

Copy icon.



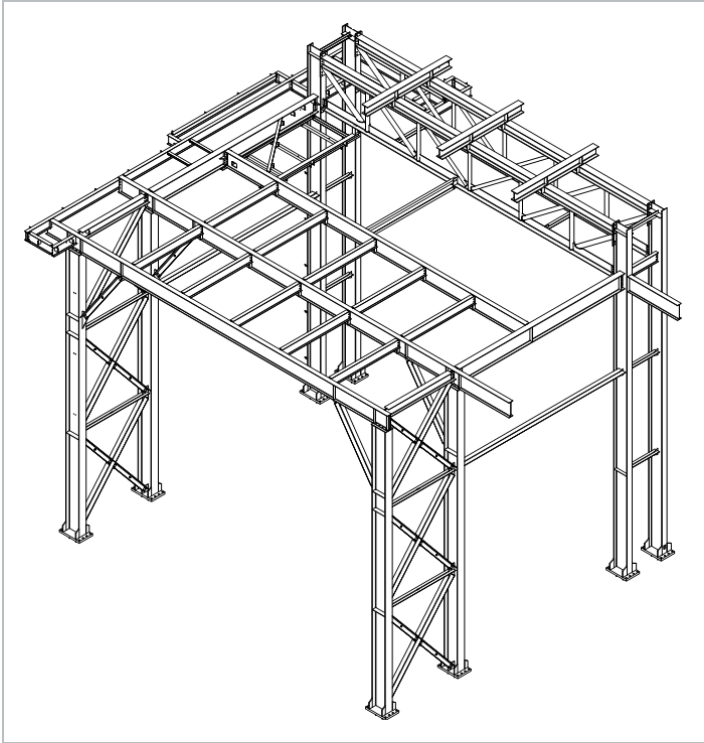
TIP You can only copy one plan/package at a time.

- This brings up a new dialog box for you to select what information to carry over
2. Rename the work plan.
 3. Uncheck **Overview page** and **Workspace (all data blocks)**.
 4. Click **Copy** to finish creating your new work plan.



3.3.4 Create an Installation Work Package (IWP)

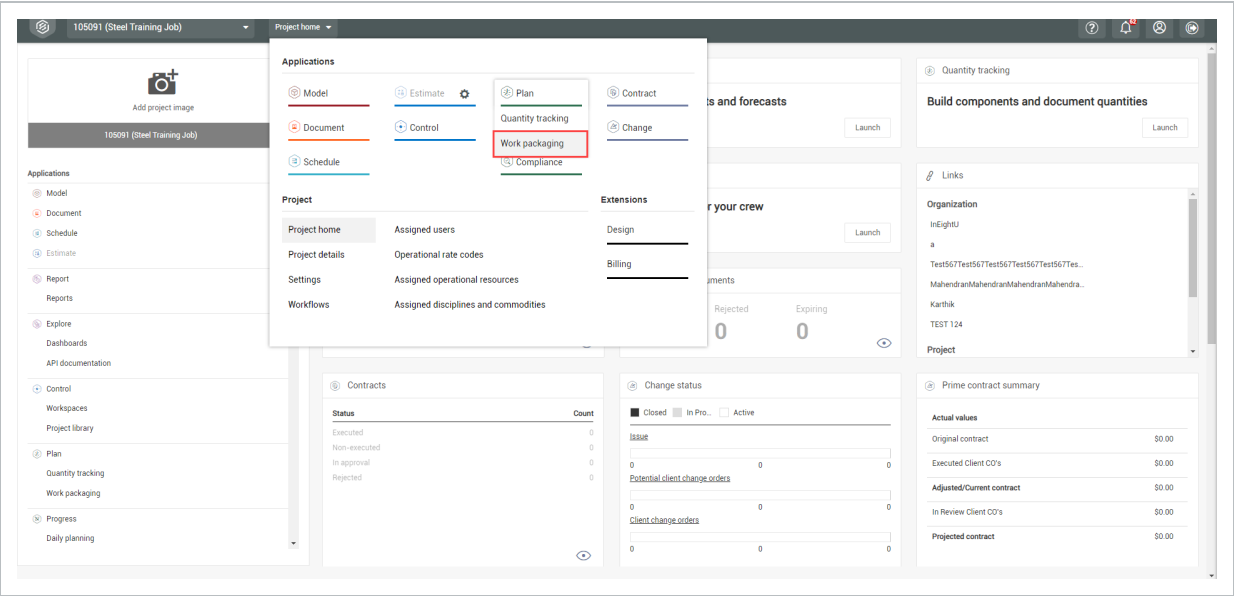
Continuing with the scenario above, you will create an installation work package.



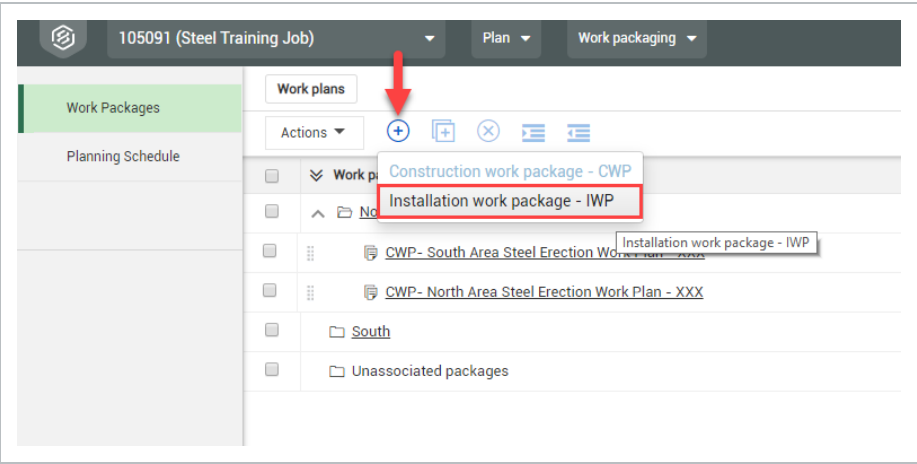
Within each installation work package, you can assign the labor, components, equipment, materials, and other aspects you need to complete the work.

Create an Installation Work Package (IWP)

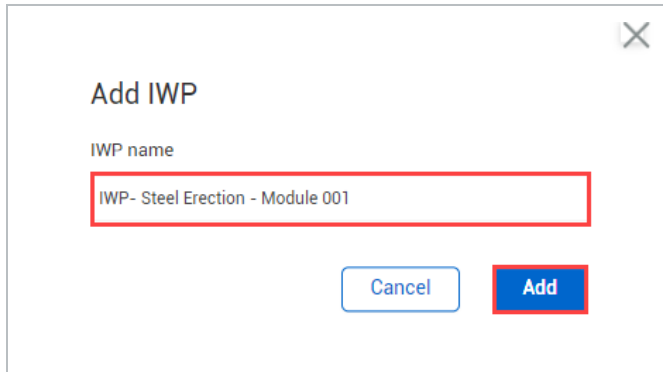
1. From your project's home page, navigate to the **Work packaging module**.



2. On the Work plans/packages page, select the **Add** icon and select **Installation work package - IWP**.



3. In the Add IWP dialog box, name your work package and click **Add**.



A dialog box titled "Add IWP" with a close button (X) in the top right corner. It contains a label "IWP name" above a text input field. The input field contains the text "IWP- Steel Erection - Module 001". Below the input field are two buttons: "Cancel" and "Add". The "Add" button is highlighted with a red border.

3.3.5 Group Work Packages

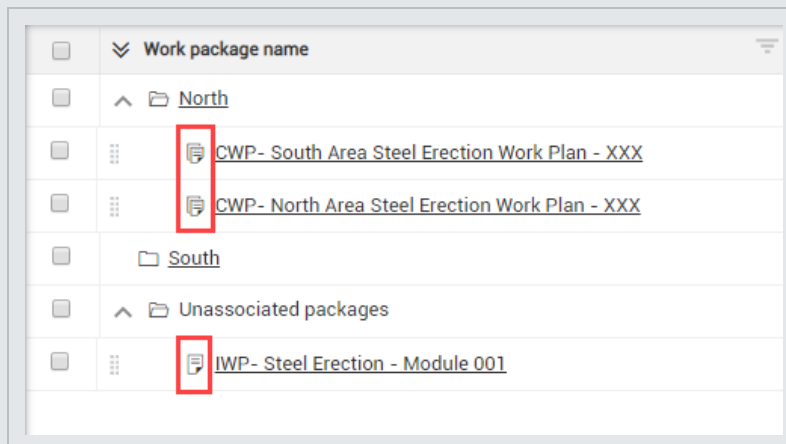
After creating work packages, you can group them underneath the plans you have created. This helps with the organization and planning of the work.

Group a Work Package

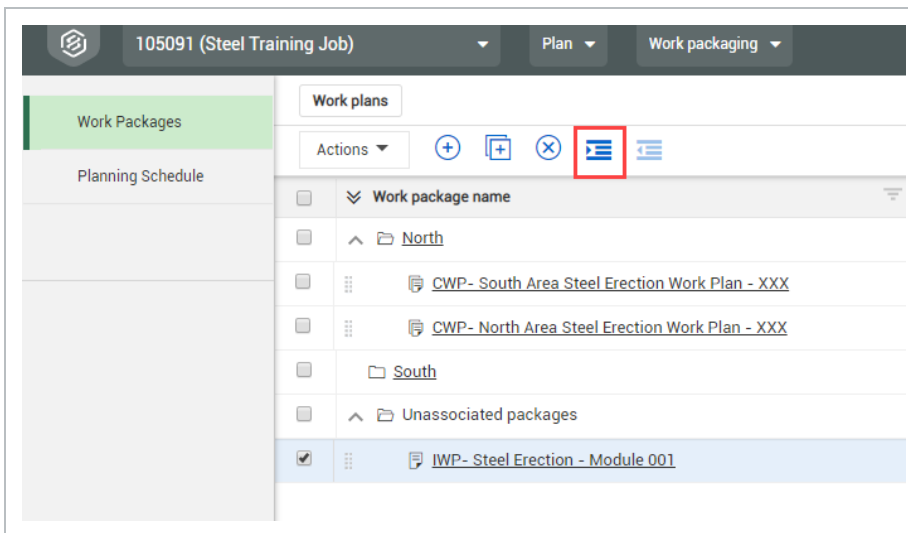
1. On the Work plans/packages page, select a work package.

NOTE

Notice that CWP and IWP have different icons.

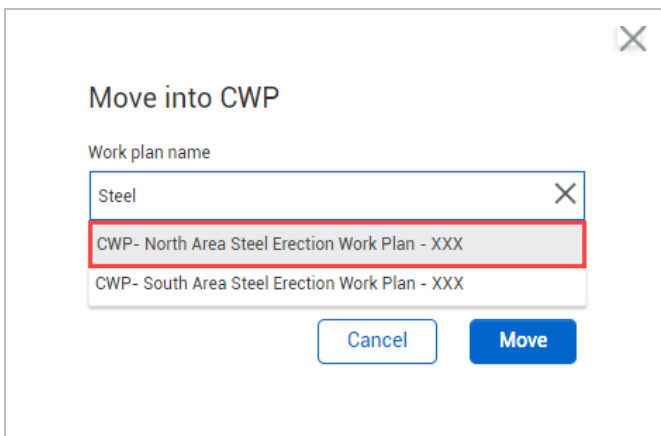


2. Click the **Move into CWP icon**.

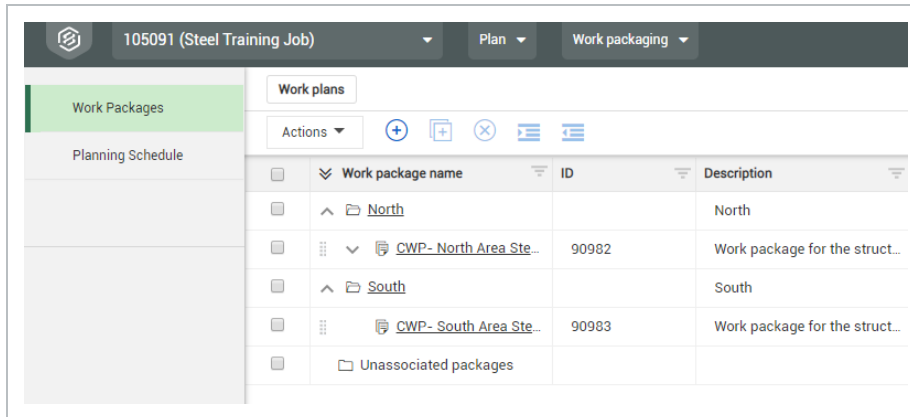
**TIP**

You can also group installation work packages into construction work packages by clicking anywhere in the row for the installation work package and dragging it over top of the desired construction work package.

3. In the Move into CWP dialog box, start typing the name of your construction work package.



4. Select the CWP you want to move it to, then click **Move** to move the package to finish grouping your packages.

**TIP**

You can also group construction work packages into construction work areas by editing the CWP in the Construction Work Package Overview tab, then selecting the appropriate CWA ID or CWA Description from the drop-down.

3.4 INSTALLATION WORK PACKAGE DETAILS

Installation work packages include the details of a group of activities. The details in the work package include installation sequence, components, labor, equipment, safety and quality concerns, and other aspects of the work package. When ready to share, you can attach external files and send to print as a PDF. Or, if you are integrated with InEight Document, you can easily send packages and documents.

3.4.1 Work Package Overview Tab

When you open an installation work package from the Work plans page, the Overview tab is similar to the construction work package Overview tab, but you can now define settings specific to the installation work package. For example:

- The engineer may be different for this particular package and might report to a different engineer than assigned at the CWP level
- The IWP's start and end dates might also be a smaller time period than the CWP's schedule start and finish dates

Installation Work Package Overview

1. On the Work plans/packages page, select the **hyperlink ID** of your installation work package.
2. In the Overview tab of your installation work package, enter a description in the Description field.
3. From the drop-down list in the Discipline field, select a discipline.
4. For Type of work, input short description.
5. From the drop-down list in the Risk field, select a risk level.
6. Select a Start and End date.
7. Select a Planner.
8. Select a Superintendent.
9. Select an Engineer.
10. Select an Executor.

The screenshot displays the 'Overview' tab of an installation work package. The left sidebar shows progress metrics (0% complete for both hours and cost) and a list of roles. The main form area contains various input fields and dropdown menus for defining the work package details, such as description, discipline, type of work, risk, and scheduling information.

3.4.2 Installation Work Package Workspace Tab

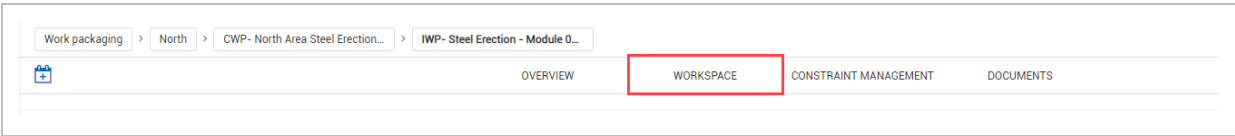
The Workspace tab is where the majority of your planning is accomplished. Here you can enter the planned labor, materials, equipment, components, among other aspects of the plan. You enter these details using data blocks. Some data blocks are open entry fields, such as safety, environmental, and

work sequence. However, other data blocks use validated fields based off previously entered information. These include Budget, Component, and Equipment data blocks.

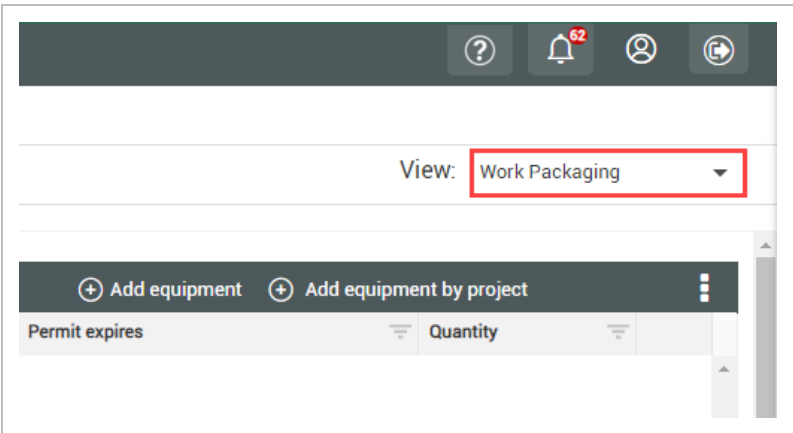
NOTE The Labor data block is an open entry field, unless you enter an actual labor resource.

Installation Work Package Workspace

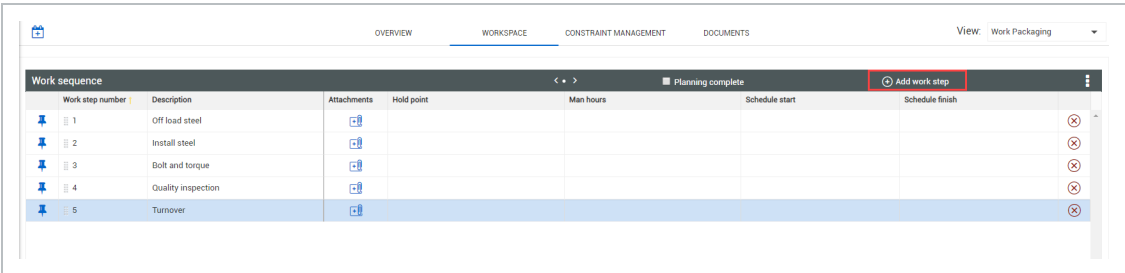
- 1. On the Work Packages tab of the Work plans/packages page, select the **hyperlink ID** of your installation work package.
- 2. From the Installation work package page, select the **Workspace** tab.



- 3. Select the **View menu** and change your view to your previously created viewset (see *General Navigation*).



- 4. In the **Work sequence** data block, add work sequence steps by clicking on the **Resource** button and enter details for your project.



NOTE

Create a hold point by clicking in the Hold Point field and select **Yes**.

Work sequence

Work step number	Description	Attachments	Hold point
1	Off load steep		
2	Install steel		
3	Bolt and torque		None
4	Quality inspection		None
5	Turnover		No
			Yes

5. In the Labor data block, add labor by clicking on the **Resource button** and enter details for your project.

Labor

Add labor

Add labor from project resource

Trade	Craft level	Quantity	Employee ID	Name
-------	-------------	----------	-------------	------

6. In the new dialog window, search for employee names and click the **Add icon** and enter details for your project.

Add labor from project resources

Available employees in project :

Ulysses

	Employee ID	Name	Trade	Craft level
	00187119	Ulysses Castro	Laborers	Laborer Journeyman

TIP

You can search based off any of the fields associated to the employee (e.g., Employee ID, Trade).

NOTE

You can add Multiple employees at a time in this dialog box. (Only employees who can be added to daily plans will show up in the drop-down selection – See your Account Administrator if you do not see an employee.)

7. In the Equipment data block, add equipment by selecting one of the two **Resource buttons** and enter details for your project.

Equipment

< • >

+ Add equipment

+ Add equipment by project

⋮

Equipment ID	Description	Category	EquipmentType	Ownership	Permit expires	Quantity
--------------	-------------	----------	---------------	-----------	----------------	----------

8. In the Component data block, add equipment by selecting the **Resource button** and enter details for your project.

Components

< • >

+ Add components by WBS

⋮

Compone...	Description	Quantity	UoM	WBS	CE-MH/unit	Estimated hours
------------	-------------	----------	-----	-----	------------	-----------------

NOTE

Also, a component can only live in one package at a time. It cannot live in both the CWP and its child IWP due to percent complete tracking purposes.

10. In the Safety data block, add steps by clicking the **Resource button** and enter details for your project.

Safety

< • >

+ Add safety step

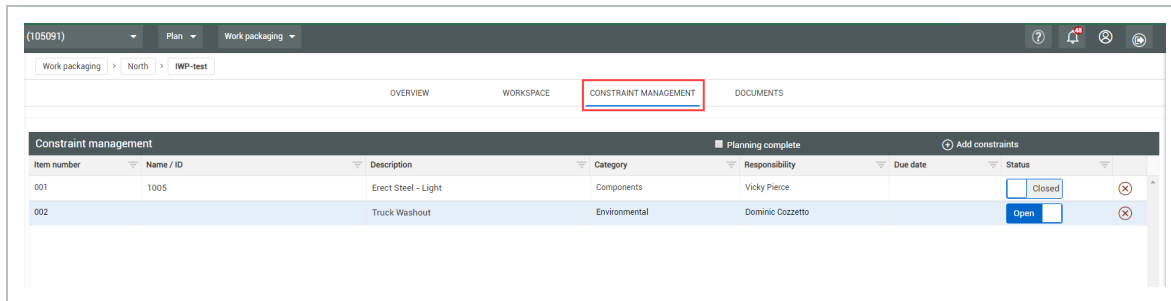
⋮

Step	Description	Safety risk	Mitigation	Required safety items
1	Crush Points			

11. On the Breadcrumbs bar, select **Work packaging** to go back to the Work plans/packages page and view your completed work plan and work package.

3.4.3 Installation Work Package Constraint Management Tab

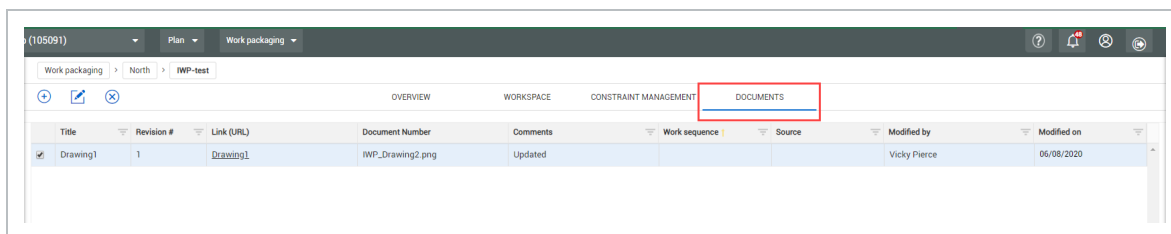
From the Constraint Management tab, you can review items pinned in the Workspace tab or manually add new constraints. Assign constraints and due dates out to project members, and change the constraint status from open to closed when resolved.



3.4.4 Installation Work Package Documents Tab

Add, edit, and share IWP documents from the Documents tab. As documents are updated, get the latest information by looking for the revision number, modifier, and date of modification.

You can now add attachments to the Lesson Learned, Quality Forms, and Work Sequence data blocks from the Workspace tab. These additions will appear in the Documents tab.



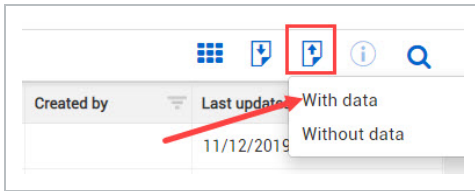
3.5 WORK PACKAGE IMPORT

3.5.1 Import Template

Creating and copying work packages can be time consuming. You can use an Excel import template to upload multiple work packages with their overview information already populated.

Create Work Packages from Excel Import

1. On the Work plans/packages page, click on the **Export icon**, and select to export **With Data** and open the export file.

**TIP**

Excel templates “without data” are used for creating new components from scratch, usually during project setup.

Excel templates “with data” are typically used to update existing work plans/packages.

2. Open the export file.

- This opens up the Excel template to use for the import. It also contains the data from the current work packages on the Work plans page
- You may need to select **Enable editing** at the top of the spreadsheet prior to entering data

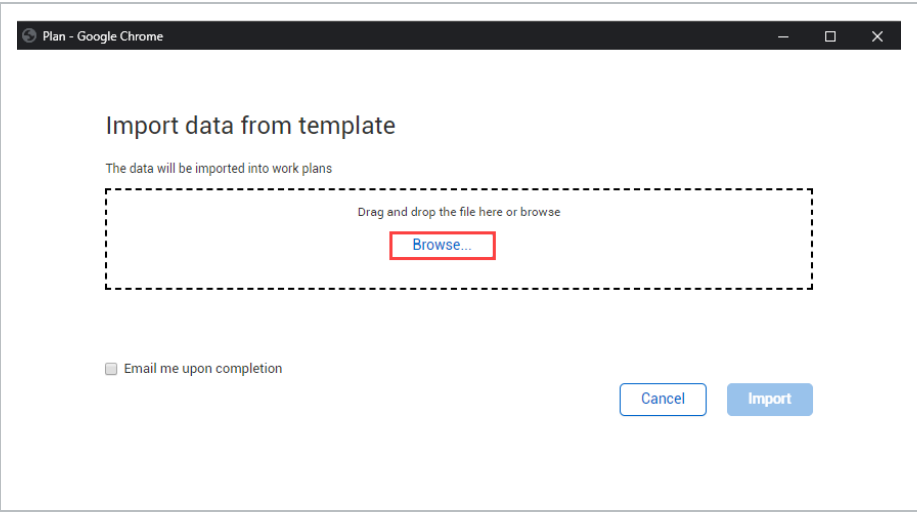
	A	B	C	D	E	F	G
1	English	User Selected Language					
2	REQUIRED	Field is required for import					
3	OPTIONAL	Field is optional for import					
4	VALIDATED	Field must match master data available in application					
5	IGNORED	Field not to be populated					
6	Name	Package Type	Description	ID	CWP ID	Schedule ID	Scheduled start
7	Alphanumeric	CWP/IWP/EWP	Alphanumeric	Numeric	Numeric	Alphanumeric	Date- MM/DD/YYYY
8	50	1	1000	200	100	10	10
9	IWP- Steel Erection - Module 001	IWP	Steel erection of Module 001	35734	35732		
10	CWP- South Area Steel Work plan	CWP	Work Package for the structural steel of the North	35733			11/4/2019
11	CWP- North Area Steel Work plan	CWP	Work Package for the structural steel of the North	35732			11/4/2019

3. Input information into your template to be uploaded. At the bottom of the list, add information for the following categories:

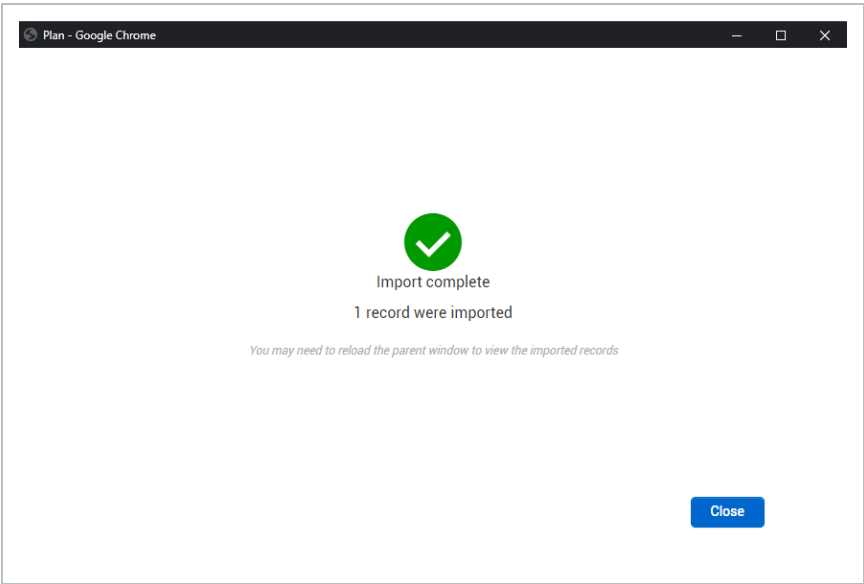
- Name
- Package Type
- Description
- Assign the proper CWP to your work package in the CWP ID field

English	User Selected Language						
REQUIRED	Field is required for import						
OPTIONAL	Field is optional for import						
VALIDATED	Field must match master data available in application						
IGNORED	Field not to be populated						
Name	Package Type	Description	ID	CWP ID			
Alphanumeric	CWP/IWP/EWP	Alphanumeric	Numeric	Numeric			
50	1	1000	200	100			
IWP- Steel Erection - Module 001	IWP	Steel erection of Module 001	35734	35732			
CWP- South Area Steel Work plan	CWP	Work Package for the structural steel of the North	35733				
CWP- North Area Steel Work plan	CWP	Work Package for the structural steel of the North	35732				
IWP- Steel Erection Upper Deck - Module 001	IWP	Upper rack steel erection		35733			

4. Delete all the work packages that came with the template.



8. Click the **Import icon**.
- Another window appears, indicating whether any errors occurred



9. Once the import is complete, click **Close**.

Exercise 3.1 — Enter Work Package Details

Now that you have learned to create work packages and fill out all details, create your own construction work package (CWP) and installation work package (IWP) using the method you prefer. Make sure to fill out all details for your installation work package.

1. Include at least one safety item.

2. Include at least two components.

3. Include at least two labor resources.

4. Include at least two pieces of equipment.

Congratulations, you have completed this exercise!

Lesson 3 Review

1. This type of work package allows you to manage a smaller, more detailed scope of work that is “progressable”.
 - a. Installation work package
 - b. Construction work package
 - c. Advanced work package
 - d. Discipline work package

2. You can group _____ under _____ to organize your work.
 - a. CWPs, IWPs
 - b. IWPs, CWPs
 - c. work plans, work packages

3. On the Workspace tab, what data blocks contain open entry fields? (Select all that apply)
 - a. Labor
 - b. Equipment
 - c. Safety
 - d. Budget
 - e. Component
 - f. Work sequence
 - g. Environmental

4. Utilizing the import template, you can upload which of the following?
 - a. Construction work packages
 - b. Installation work packages
 - c. a & b
 - d. None of the above

Lesson 3 Summary

As a result of this lesson, you can:

- Explain how to manage work packages
- Create a construction work package
- Create an installation work package
- Edit and review work package details
- Import work packages