



JD Edwards

INFOCUS

ENVISION

Options for Configuring Project Cost Detail within JDE

Presented by:

Aaron Wood & Craig Davied
Grant Thornton

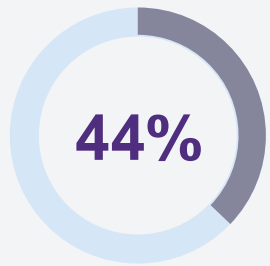
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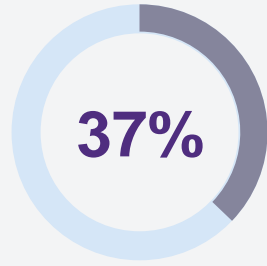
About Grant Thornton

Thriving since 1924, our U.S. firm is people-focused and purpose-driven. We believe business should be more personal and that the strongest results start with trust.

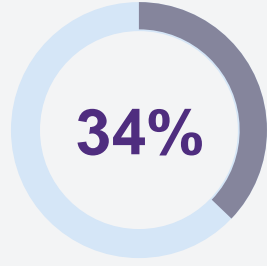
Who we serve:



Fortune 100
companies



Fortune 500
companies



Fortune 1000
companies

* Statistics as of July 31, 2020



\$1.92bn

in revenue



8,459

people, including
595 partners



53

offices

Our Oracle Practice



ERP and SCM

Financials | Revenue management | Accounting hub | Project accounting | Risk management | Project execution
Procurement | Inventory management | Cost management | Maintenance | Manufacturing | Order management | Product lifecycle and data management | Supply chain collaboration and planning



EPM Analytics

Planning and budgeting | Profitability and cost management | Financial close and consolidation | Tax reporting and provisioning
Management and operational analytics | Narrative reporting | Account reconciliation | Enterprise data management



HCM

Culture journey | Talent acquisition | Workforce administration | Talent management | Workforce development
Alumni network

Data governance & cloud integration

PaaS

Solution delivery center (off-shore and on-shore)

Industries

Construction,
Real Estate
& Hospitality

Consumer
And Industrial
Products

Energy

Financial
Services

Healthcare
And Life
Sciences

Not-For-Profit
Organizations

Private Equity

Public Sector

Technology

Find your silver lining
gt.com/silverlining

About Grant Thornton JDE

JD Edwards practice – 80+ dedicated professionals in U.S.

Project management and functional expertise

- Specialized functional resources
- Project management office
- Implementations
- Upgrades
- Mobile applications
- Third party integration architecture
- Business process re-engineering
- Managed services (functional)
- User materials and training
- Financials
- Distribution
- Manufacturing
- HR / Payroll
- CAM
- Project advisory

Technical

- CNC
- Development
- Workflow
- Security management
- Technical management
- Database management
- Infrastructure / hosting
- Managed services (technical)
- Private cloud
- Disaster recovery
- Security
- Development (FRICE)

Trusted business advisor

- Gap assessment
- Transformation
- Industry point of view
- Proven methodologies
- Process excellence
- Benchmarking
- ERP governance
- Data governance
- Master data management
- Reporting strategy
- Change management
- Cloud roadmap / strategy
- FASB planning
- Chart of accounts optimization



Oracle leadership

- The Leading Oracle Platinum Partner presenter at COLLABORATE, INFOCUS and OpenWorld conferences (more presentations than any other Platinum partner in the past 3 years)
- Featured in PROFIT magazine – JD Edwards Special Issue
- Teaming with JDE product development – we work with JD Edwards on enhancing the code base for customers (e.g. OneView Reporting, Revenue Recognition, Leasing Standards, Configurator)



Experience and recognition

- More than 250 JD Edwards implementations and upgrades as a practice
- Over 20 implementations in the past 5 years
- Over 50 upgrades in the past 5 years
- 2017 JD Edwards Partner Excellence Award for **User Adoption**
- 2016 JD Edwards Partner Excellence Award for **Vertical Industries**
- Oracle JD Edwards recognized Grant Thornton with its 2014 and 2015 JD Edwards Partner Excellence Award for Outstanding **Upgrades**

Objectives of Session

- To gain an overall understanding of the following costing functionality within JD Edwards:
 - General Ledger
 - Work Order Management
 - Job Cost Accounting
 - Engineer To Order (ETO)
- To gain knowledge of how I can establish various frameworks for my costing level of detail needs in my areas of work.

General Ledger

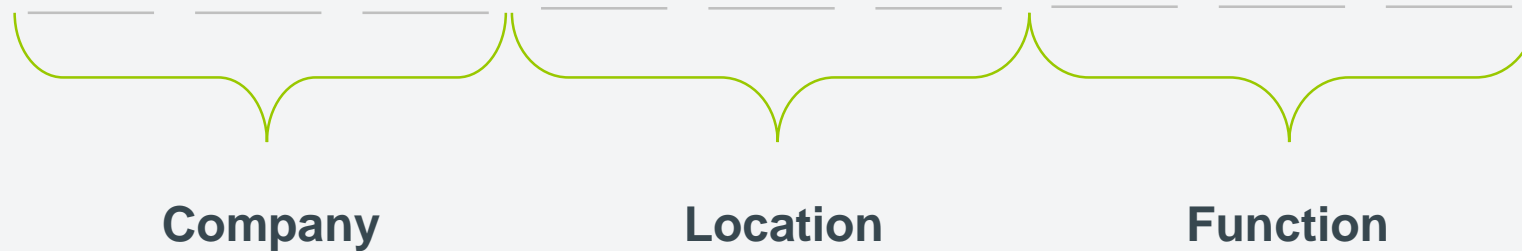
1. Business Units
2. Chart of accounts
3. Subledgers
4. Ledger Types
5. DMAAIs
6. Flex Accounting
7. Advanced Cost Accounting



Business Unit Conceptual Design

General Ledger Business Unit Structure

- Up to 12 Position Field / Multiple Segment Options:



Company

- segment will be non leading zero values only

Location

- segment for locations; make sure to leave room for future growth
- would be able to have up to 999 different Locations for each company

Function

- segment for functions; make sure to leave room for future growth
- would be able to have up to 999 different Functions for each company

Business Unit Conceptual Design

Types of Business Units:

- Balance Sheet (Assets, Liabilities, Retained Earnings) = **Company #**
- Income Statement (Revenue & Expense) = **Company, Location, Function**
- Warehouse/Location for PO Ship To = **Company, Location**

Chart of Account Conceptual Design

Account Ranges (Object Format)

- An object can be between 4-6 alphanumeric characters. Six is the maximum length and is recommended to allow for future growth.
- This field is required on G/L transactions.

Account Range	Description
100000-199999	Assets
200000-299999	Liabilities
300000-399999	Equity
400000-599999	Revenue
600000-799999	COGS
800000-899999	SG&A
990000-999999	Statistical

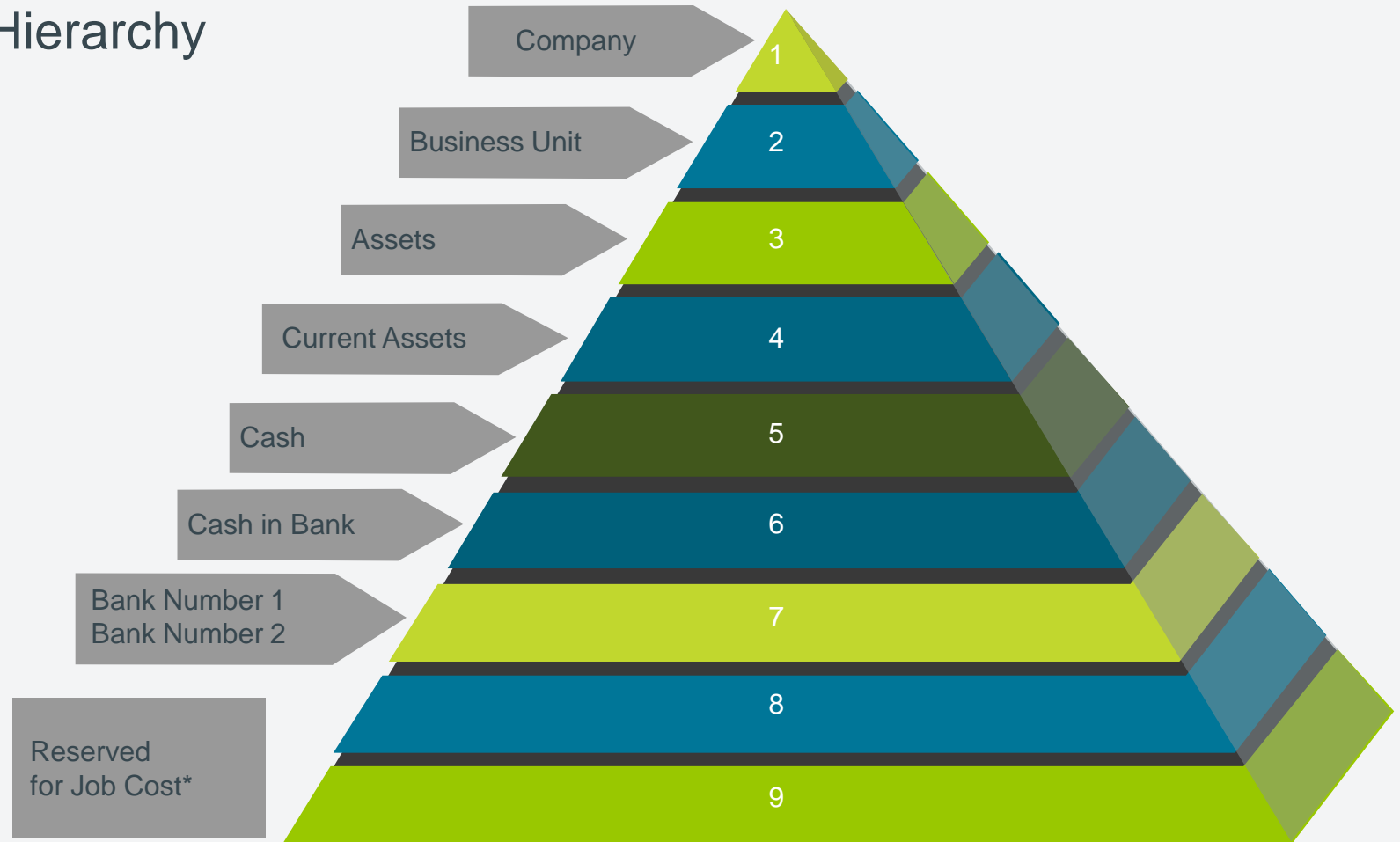
Chart of Account Conceptual Design

Subsidiary Format

- Subsidiaries can be up to 8 alphanumeric characters. They can vary in length between sections of the chart.
- This field is NOT required on G/L transactions; Only optional to provide additional detail if needed
- Account Level Category Codes are another option (discussed later in this presentation)

Chart of Account Conceptual Design

Level of Detail: Reporting Hierarchy



Subledgers

Subledger Format

- Address book – 'A' subledger type
- Work order – 'W' subledger type
- Unassigned – 'X' subledger type
 - Vendor/Customer Name – change to 'A' type and leverage address book
 - Allocations "From" – change to 'C' type and leverage business units
 - Item category code – change to 'I' type and leverage all attributes of item master
 - Project Code – change to 'C' type and leverage job cost business units
- Structured – 'S' subledger type

Note: The Subledger field has a limit of 8 characters. Business Units > 8 characters will not populate correctly.

Ledger Types

Key features:

- Ability to track budget to actual information by fiscal year
- Inquiry applications available to show budget to actual, and variance information but business unit for specific G/L account.
- Ability to roll budget information from one year to the next.

Standard ledger types used with General Ledger:

Ledger type	Amounts	Units
Actual	AA	AU
Budget	BA	BU

DMAAIs

Distribution / Manufacturing AAls:

Work With AAls

Skip To AAI Sales Order Processing

Records 1 - 30

<input type="checkbox"/>		AAI Number	Description
<input type="checkbox"/>		4200	Sales Order Processing
<input type="checkbox"/>		4220	Cost of Goods Sold
<input type="checkbox"/>		4221	Deferred Cost of Goods Sold
<input type="checkbox"/>		4222	COGS - Accomodations
<input type="checkbox"/>		4223	Deferred COGS - Accomodations
<input type="checkbox"/>		4224	COGS Intransit
<input type="checkbox"/>		4230	Revenue
<input type="checkbox"/>		4231	Deferred Revenue

Account Revisions

AAI Table Number Inventory

Records 1 - 30

Customize Grid

<input type="checkbox"/>		Co	Do Ty	Description	G/L Cat	Description G/L	Branch Plant	Obj Acct	Sub
<input checked="" type="radio"/>		00000	S5	Sales Interco Order (Term	FG01	REG Finished Goods CP1 E		15100	10000
<input type="radio"/>		00000	S5	Sales Interco Order (Ter...	FG02	REG Finished Goods CP...		15100	10000
<input type="radio"/>		00000	S5	Sales Interco Order (Ter...	FG03	REG Finished Goods CP...		15100	10000
<input type="radio"/>		00000	S5	Sales Interco Order (Ter...	FG04	REG Finished Goods CP...		15100	10000
<input type="radio"/>		00000	S5	Sales Interco Order (Ter...	FG05	REG Finished Goods CP...		15100	10000

Setup by Company / Order Type / G/L Class Codes

Branch Plant, Subsidiary, and Subledger can be "flexed"

Flex Accounting

Flexible accounting provides greater flexibility in recording accounting information associated with manufacturing / distribution transactions.

- Determine what can be flexed:

Account Segment	Works with flexible format?	Character limit
Business Unit	Yes	12
Object	No	6
Subsidiary	Yes	8
Subledger (F0911 only)	Yes	8

Note: Branch plant field can be broken into as many as 6 segments with a total of 12 characters. The subsidiary can be broken into up to 4 segments with a maximum of 8 characters.

Flex Accounting

Flexible Sales Accounting (P40296):

Flexible Sales Accounting - Work With Flexible Sales Accounts

Form Tools One View

AAI Table Number

Company

AAI-Financials

Object Acct From/To

Document Type

Adjustment Name

Records 1 - 2
Customize Grid

	Co	Doc Type	AAI Number	AAI-Fin Number	Acct From	Acct To	Adj Name	Description	Business Unit	Subsidiary	Subledger	Item	Cost Object	Data Item	File Name
<input checked="" type="radio"/>	00000		4220							X				Allocation Process Flag	F4211
<input type="radio"/>	00000		4220							X				Category Code 9	F4102

Seq

Business Unit

Subsidiary

Subledger

Item

Cost Object

Cost Type

File Name *

Len

Description

Data Item *

Data Type

<input checked="" type="radio"/>	1	<input type="text" value=""/>	X	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	F4211	1	Allocation Process f	ALLOC	<input type="text" value=""/>
<input type="radio"/>	2	<input type="text" value=""/>	X	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	F4102	6	Category Code 9	SRP9	<input type="text" value=""/>

- Ability to "flex" key values into the General Ledger detail file (F0911)
- Branch Plant / Subsidiary / Advanced Cost Types (Not Object!)
- Specific DMAAs utilize related key transactional and master data fields

Flex Accounting

Creates the ability to drive more detail into your CofA, thru:

- More detailed Business Units and Subsidiaries (not Objects)
- Use of Subledgers
 - No additional G/L accounts to maintain (F0901)
 - Additional records in your account balance file (F0902)

However....

- More G/L Accounts to maintain (F0901)
- More transactions in your General Ledger (F0911)
- More time during close to perform consolidation type functions

Advanced Cost Accounting

Cost Objects (Advanced Cost Accounting)

- Advanced Cost Accounting helps you identify which customers, products, activities, and internal processes add value—and which do not
- 4 cost type fields to utilize (item number takes the 5th)
- Typically track customer and/or product data in the cost objects
- Examples:
 - Departments
 - Types of services
 - Locations
 - Projects
- If any of these values can be derived from an account category code, then cost objects should not be used for this data

Advanced Cost Accounting

Cost Objects (Advanced Cost Accounting)

- Things to consider:
 - Identify transactions that require additional data
 - Financial (A/R, A/P, G/L)
 - Procurement
 - Sales
 - Transportation
 - Common data points to track
 - Customer attributes (Customer number, Region, Sales Territory)
 - Product attributes (Product Line, Product Number)
 - Guiding principle is to directly link financial transactions (F0911) to specific customers and products for additional reporting/analysis

General Ledger: Summary

- General Ledger base functionality – backbone of JDE
- Balance Sheet & Income Statement – treat as permanent G/L accounts
- Subsidiaries vs. Subledgers – differences / benefits
- Budget-to-actual ledger tracking capabilities
- Flex accounting offers ability to drive specific operational/project details into your G/L accounts.
- Advanced Cost Accounting (via Flex Accounting) enables project information at transaction level (not G/L account level).

Work Order Management

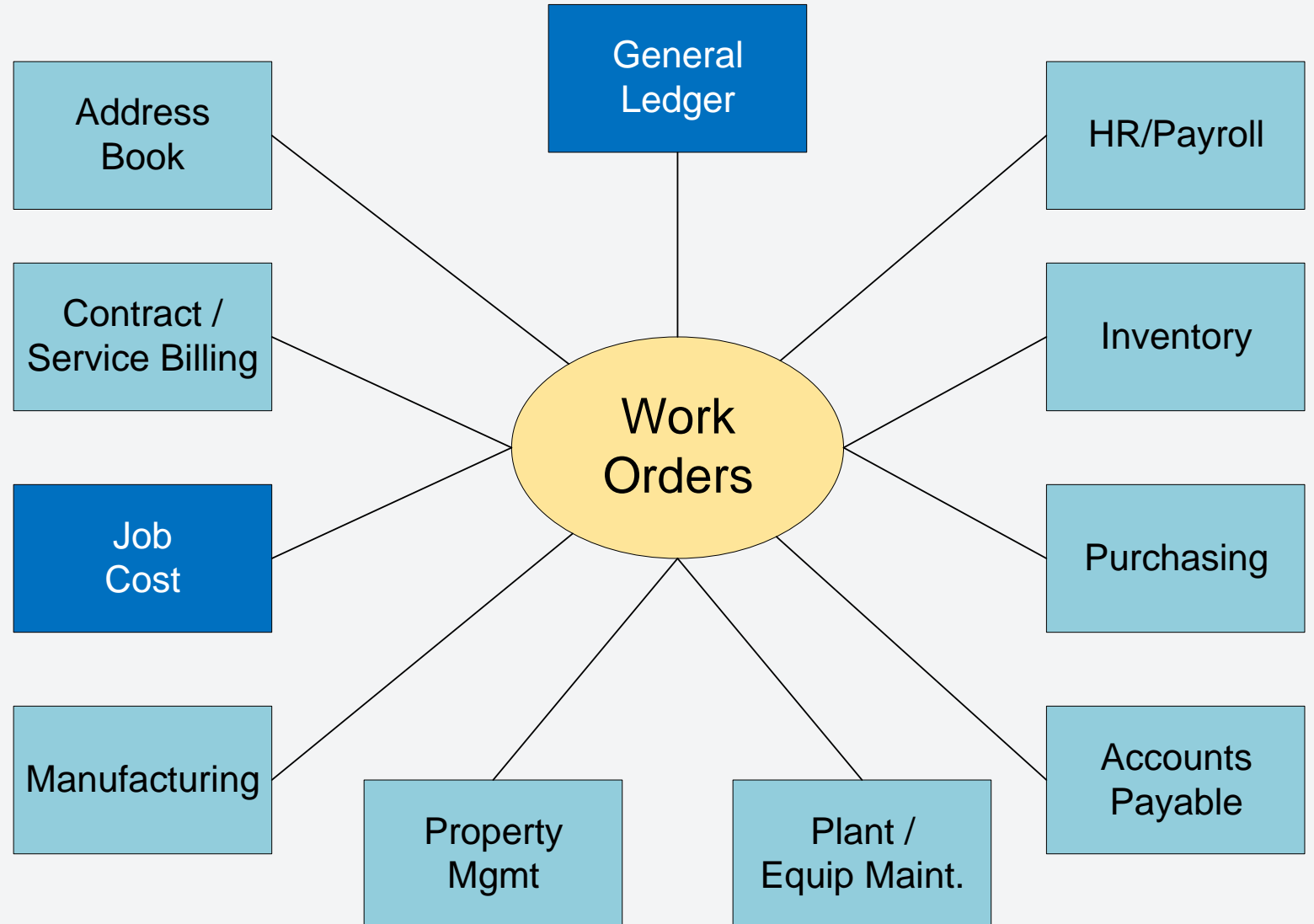
1. Work order master
2. Work order details
 - a) Key features / functionality
 - b) Integration
 - c) Costing capabilities



Work Order Overview

Key features

- Simple Project Management
- Works with the General Ledger or Job Cost (using Subledger functionality)
- Work order approvals
- Order activity rules / statuses
- Simple estimating
- Assigning costs to work orders








Work Order Master

Key information

- Customer number
- Job / Business Unit
- Parent WO
- Phases
- Task Description
- Start / Completion Dates
- Manager

Project Setup - Project Setup Personal Form: (No Personalization) ▼

    Row  Tools

Customer Number

Job or BU



Parent W.O. No

Status From

Skip to Phase

Status Thru

Records 1 - 100 > <





		Phase	Task	Start Date	Planned Complete	Hours	Order Number	Manager	M N
<input type="radio"/>			Replace Seat Post			21.00	20001		
<input type="radio"/>			Security - Perimeter Guards	04/03/2017	04/03/2017		65010	6002	
<input checked="" type="radio"/>	<input type="text"/>		DIA Security Services	06/24/2017	06/24/2017		65015	6002	
<input type="radio"/>			Security Services	04/15/2017	04/20/2017		65016	6002	
<input type="radio"/>			Security Services	05/15/2017	05/30/2017		65017	6002	
<input type="radio"/>			Security Review	04/04/2017	04/30/2017		65020	6002	

Work Order Details

Key information

- WO # / Description
- Statuses
- Messages
- Cost Code
- Est. Hours / Amounts
- Multiple dates for tracking
- Related Address Book #'s
- Classification (Category codes)

Project Setup - Enter Work Orders

   Form  Tools

Order Number20001

DescriptionReplace Seat Post

General

Dates/Assignments

Classification

Status Comment

Search X-Ref

W.O. StatusE1ECO Entered

Type

Priority3Normal

Std. Description

Flash Message2Operation Scheduling

Subledger InactActive Subledger

Parent Number

Charge to BUM30Eastern Manufactu

Cost Code

Est. Hours21.00

Est. Amount

Tax Expl Code

Tax Rate/Area

Work Orders: Cost by Job

- Ability to have work order activity linked to a job or business unit

Work Order Cost by Job - Work Order Cost by Job

Personal Form: (No Personalization) Query: All Records

Q X Form Row Tools

Job or BU

6100

Protective Services

Ledger Type

AA

From Date/Period

Phase

*

Thru Date/Period

Records 1 - 12

Phase

Phase Description

Work Order

Task Description

Actual Hours

Estimated Hours

Actual Amount

Estimated Amount

Job

		...	65010	Security - Perimeter Guards	190.00		3,348.44		6100
		...	65015	DIA Security Services	358.00		7,451.88		6100
		...	65016	Security Services	410.00		9,521.08		6100
		...	65017	Security Services	420.00		9,320.22		6100
		...	65020	Security Review	40.00		720.00		6100
		...	65023	Security Guard Supervisor	324.00		12,666.42		6100

Work Orders: Cost by Job

- Ability to see the work order activity within Job cost or G/L inquiries
- Actual costs were booked via supporting modules (using subledgers)

Job Status Inquiry-User Defined Columns - Job Status Inquiry Personal Form: (No Personalization) Query: All Records

✓ 🔍 ✕ ⚙️ Form ⌵ Row 📄 Report ⚙️ Tools

Display Additional Selections Project Options Columns Job Codes Account Codes More Columns

Job Number: 6100 JB Protective Services From Date/Period: 1/1/2017
Job Posting Edit: Thru Date/Period: 6/30/2017
Column Version: JOBCOST (Blank = User ID) Level of Detail: 9
Subledger: W 00065015

Records 1 - 21

		Cost Code	Cost Type	Account Description	Actual Amount	Actual Units	UM	M C	L D	Company	Company Description
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1341	Regular Time	6,262.07	331.00		D	9	00050	Project Man
<input type="checkbox"/>	<input type="checkbox"/>		1342	Premium Time	414.81	15.00		D	9	00050	Project Man
<input type="checkbox"/>	<input type="checkbox"/>		1343	Burden	367.56			D	9	00050	Project Man
<input type="checkbox"/>	<input type="checkbox"/>		1340	Labor	7,044.44	346.00		T	8	00050	Project Man

Work Orders: Summary

- Used for more simple projects / Best for shorter duration jobs
- Ability to track work activities for a particular job
- Simple budget-to-actual costing analysis
- Ability to see costs at the task (work order) level within the General Ledger or Job cost
 - Via Subledger functionality (within F0911 only)
- Ability to approve work & understand the status of work order activity
- Additional reporting capabilities

Job Cost Accounting

1. Job setup
 - Job master / accounts
2. Cost code structures
3. Job budgets
4. Job commitments
5. Job status inquiry
 - Roll-up capabilities
 - Inquiry columns
 - Display options
6. Job cost reports
7. Job maintenance
 - Field progress entry
8. Profit recognition / Journal entries
9. Project costing related modules



What is Job Cost?

Job cost is a means of tracking costs and revenue on a per job / project basis. Specifically, we are able to perform the following:

- Create and maintain cost code structures for all jobs
- Establish job budgets
- Set up time schedules for job tasks.
- Track and manage the costs and revenues associated with projects, individual jobs, and/or change orders
- Review and revise additional information associated with projects and/or jobs.
- Generate various reports showing the cost, revenues, and other details of projects and/or jobs.
- Calculate job progress at any time during the job.
- Calculate estimated final values associated with projects and jobs.
- Recognize and record profit or loss at any point in a job.
- Create draw reports on the costs that are eligible to be borrowed against a loan agreement.

Job Cost / Financial COA Relationship

Balance Sheet		
Object	Description	LOD
10000	Assets	3
11000	Current Assets	4
11500	Work in Process	5
11510	WIP: Materials	6
11520	WIP: Labor	6
20000	Liabilities	3
21000	Current Liabilities	4

Jobs typically
reside on the
balance sheet...

Job #100				
Cost Code	Cost Type	Description	LOD	
100000		Pre-Construction	3	
110000				
Job #101				
Cost Code	Cost Type	Description	LOD	
110000				
110000		Pre-Construction	3	
110000				
Job #102				
Cost Code	Cost Type	Description	LOD	
110000		Pre-Construction	3	
110000		Design	4	
110500		CAD Drawings	5	
110500	11520	Labor	8	
110600		Estimating	5	
110600	11520	Labor	8	
200000		Build	3	
210000		Project Mgmt	4	
210000	11520	Labor	8	
210000		Installation	4	
210000	11520	Labor	8	
250000		Products	3	
251000		Equipment	4	
251000	11510	Materials	8	
252000		Supplies	4	
252000	11510	Materials	8	
253000		Disposables	4	
253000	11510	Materials	8	
900000		Financials	3	
910000		Job Billings	4	
910000	90000	Billings	8	
950000		Job Adjustments	4	
951000	95000	Cost in Excess	8	
959200	96000	Billings in Excess	8	
990000	99900	Job Offsets	8	

...and are “recognized” on
the income statement
periodically.

Note: Jobs can reside on the I/S if
necessary

Income Statement		
Object	Description	LOD
40000	Revenue	3
41000	Contract Revenue	4
42000	Contract Sales Adj	4
50000	Expenses	3
51000	Contract COGS ₃₀	4
52000	Contract COGS Adj	4
70000	S, G & A	3
71000	S, G & A Detail	4

Job Master Setup

Setup job master

- Type of business unit
- Extended job master

Key information

- Job number
- Job description
- Company
- Posting edit code
- Jobsite address
- Customer billing address
- Dates
- Category codes

Job Cost Master Revisions - Job Master Revisions

Work with Job Master **Job Master Revisions**

OK Cancel Form Previous Next Tools

Job Number * 5100

Revise Single Job More Detail Cat Codes 1-20 Cat Codes 21-40 Cat Codes 41-50 / AB No Dates/Other

Description	Potomac Hotel	
Project	5000	Project Holding Company
Company *	00050	Project Management Company
Type Business Unit	JB	Job Cost
Subledger Inactive		Active Subledger
Model Job		Non-Model/Consolidation
Level of Detail	3	Level of detail
Threshold % Complete	5.00	

Job Master Setup

Setup job accounts

- Cost code structures
- Cost code / cost type
- Account description
- Alternate cost code
- Posting edit code
- Level of detail
- Unit of measure
- Method of computation
- Category codes

Other account setup methods

- Copy from chart type
- Copy from job
- Export / import

Account Master Sequences - Original Budget / Account Master Sequence

Work with Job Master **Original Budget / Account Master Sequence**

OK Find Delete Cancel Form Row Previous Next Tools

Display Additional Selection

Ledger Type JA JU G/L Date 07/31/2005

Job Number 5100 Potomac Hotel Level of Detail 9

Job Posting Edit Subledger *

Records 1 - 50

<input type="checkbox"/>	<input type="checkbox"/>	Cost Code	Cost Type	Description	U	L	P	M	Adjustment Only	Original Units	Original Amount	3rd Account Number	Alternate Cost Code
					M	D	E	C					
<input type="checkbox"/>	<input type="checkbox"/>	01000		GENERAL REQUIREM		3	N	N	<input type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	02000		SITE WORK		3	N	N	<input type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	02200		Earthwork	CY	4	B	N	<input type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	02200	1340	Labor	MH	8	N	N	<input type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	02200	1341	Regular	MH	9		D	<input type="checkbox"/>	3,000.00	50,000.00		
<input type="checkbox"/>	<input type="checkbox"/>	02200	1342	Overtime	MH	9		D	<input type="checkbox"/>	1,800.00	15,000.00		
<input type="checkbox"/>	<input type="checkbox"/>	02200	1343	Burden		9		D	<input type="checkbox"/>		10,000.00		
<input type="checkbox"/>	<input type="checkbox"/>	02200	1350	Materials	EA	8		P	<input type="checkbox"/>		750,000.00		
<input type="checkbox"/>	<input type="checkbox"/>	02200	1355	Equipment	HR	8		D	<input type="checkbox"/>	1,000.00	25,000.00		
<input type="checkbox"/>	<input type="checkbox"/>	02200	1360	Subcontracting	LS	8		B	<input type="checkbox"/>		150,000.00		
<input type="checkbox"/>	<input type="checkbox"/>	02200	8136	401K Contribution		8		D	<input type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	02200	8140	Insurance-Health & D...		8		D	<input type="checkbox"/>				
<input type="checkbox"/>	<input type="checkbox"/>	02200	8192	Vacation Expense		7		D	<input type="checkbox"/>				

Job Cost vs. G/L



The account structures are related as follows:

- Job number = Business unit (aka "Cost center")
- Cost code = Subsidiary
- Cost type = Object

The cost code identifies a specific activity within the job.

The cost type identifies specific costs, within the activity, such as labor or materials.

If necessary, the subledger is another field available to further segregate costs (used with change orders).

** - General ledger accounting structure is utilized for journal entries

Cost code structures

Header vs. detail accounts

Header account

- An account into which corresponding detail accounts can be summarized
- Can also be used to summarize related cost code headers, depending on the level of detail
- Only has a job number and a cost code

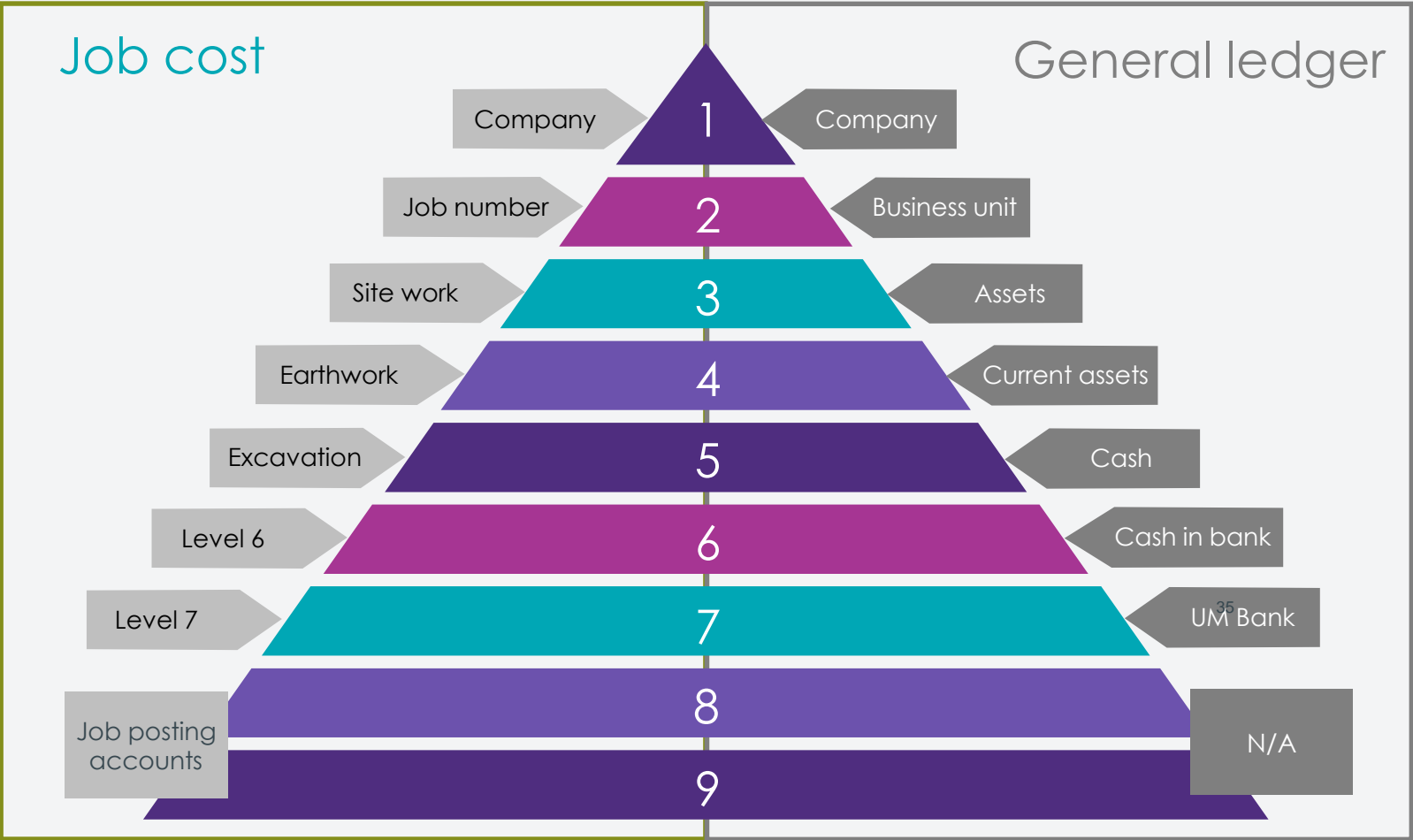
Detail account

- An account that is defined down to a specific cost type
- Contains a job number, cost code, and a cost type

LOD	Cost code	Cost type	Account Desc
3	1000		Sitework
4	1100		Earthwork
5	1110		Surveying
8	1110	1420	Labor
8	1110	1430	Materials
5	1120		Excavation
8	1120	1420	Labor
5	1130		Trenching
8	1130	1420	Labor
8	1130	1430	Materials

Cost code structures

Level of detail / hierarchy



Cost code structures


Key questions to answer

- How do I estimate the work to be completed? What system do I utilize?
- How do I manage the costs on my job? Remaining activity?
- What cost data informs me of future adjustments to make?
- How do I measure the performance of my:
 - Estimators?
 - Project managers?
 - Supervisors, Foreman, Laborers, etc.?
- How do I measure the performance of my division? Product line? Company?
- How do I forecast cost and revenue for future years?
- Am I able to analyze costs effectively to recognize costing trends?

Cost code structures

Cost types

Relationship to
COA B/S WIP
Accts



Used to further define the costs associated with the accounts in your cost code structure

Typical questions to ask when determining if a cost type is necessary:

1. "Is this type of cost utilized in multiple cost codes / activities within a job?"
2. "How do I usually group my cost type information for review?"

Financial cost types:

- Job billings
- Revenue recognized
- Cost recognized
- Over / under billings

Cost type example

Cost type	Description	P/E	LOD
1420	Direct labor	B	8
1421	Field labor		9
1422	Office labor		9
1423	Field fringes		9
1424	Office fringes		9
1430	Direct materials		8
1440	Equipment - Internal		8
1445	Equipment - External		8
1450	Subcontractors		8
1455	Consumables		8
1460	General supplies		8
1480	Travel		8
1481	Meals & entertainment		8
1482	Utilities/rents/phones		8
1483	Bonds & insurance		8
1484	Commissions		8

Cost code structures

Header units

LOD	Cost code	Cost type	Description	U/M	Budgeted units	Budgeted dollars
3	10100		Major activity	LF		
4	10000		Sub activity	LF	3000	\$1000
8	10000	1420	Labor	MH	50	
9	10000	1421	Salaried labor	MH		
9	10000	1422	Hourly labor	MH		
9	10000	1423	Fringes	LS		
8	10000	1430	Direct materials	LF	3000	\$25,000
8	10000	1450	Subcontracts	LS	1	\$10,000

Legend

Header account

Detail account

Header units - Overall quantities to complete

Detail units - Units by cost type, related to the detailed transaction

Key aspects:

- Specific header and all detail accounts are linked because cost code is consistent between them
- Header accounts are available for level of detail 3 through 7

Cost code structures

Developing standards

- It is important to develop your entire Code Book for all WBS activities that you think you might ever encounter
- Utilize the Chart Types functionality in order to store subsets of your code book as templates, typically broken down by (for example):
 - Type of jobs
 - Product lines
 - Industries
- Assign numeric values to each cost code; Make sure to have gaps built into your numeric sequences for future growth
- Remember you have up to 8 digits available for your cost code numeric values
 - Make sure to use a large enough string to allow for proper spacing³⁰ / future growth, but don't forget that all users of this information will need to enter/record this information on numerous forms and/or documents, so be careful not to add needless keystrokes...

Cost code structures

Ledger types

- Ability to track units, as well as dollars
- Ability to lock original budgets, yet have revised budgets accumulate
- Projected finals are a separate ledger type
- Ability to track purchasing and subcontract commitments
- All ledger types are available for Job Status Inquiry column definitions as well
- Opportunity to have additional “custom” ledger types for other job related purposes

Ledger type	Amounts	Units
Actual	AA	AU
Budget – original	JA	JU
*Budget – revised	RA	RU
Commitments	PA	PU
Projected final	HA	HU
Field progress (Force)	FA	FU
% of job complete	F%	
Custom ledger type(s)	??	??

Cost code structures

Add'l configuration options to consider

Subledger Level	Transaction Level
<ul style="list-style-type: none">• Specific data attributes which can be incorporated into WBS	<ul style="list-style-type: none">• Subsystem transactions which update specific job cost WBS accounts
<ul style="list-style-type: none">• Ability to track additional detail without adding more WBS accounts	<ul style="list-style-type: none">• Ability to have individual transactions summarize at typical WBS account balance level
<ul style="list-style-type: none">• Same level of detail within account balance analysis as typical cost code structures<ul style="list-style-type: none">• Estimate to complete analysis	<ul style="list-style-type: none">• Summarized WBS account analysis<ul style="list-style-type: none">• If limited/few transactions within each WBS account, question if structure is adequately proportioned
<ul style="list-style-type: none">• Job status inquiry can summarize at the WBS account level or individual Subledger level	<ul style="list-style-type: none">• Ability to drill into WBS accounts for transaction level of detail

Questions to answer:

What information is necessary to analyze at the WBS account level vs. what transaction information is necessary for drill down purposes?

Cost code structures

Methods of computation (job forecasting)

- Definition: Used to define the means by which to calculate job forecast (projected final) information
- JDE offers over 15 different methods
- Each has specific situations where they apply
- Here are a few of the more widely utilized MOC's:

Method D – Default

- Greater of revised budgets OR actuals plus open commitments
- Based on amounts first and then units second

Methods S & I – Summary & inclusion

- S & I is used when you want to budget at a higher level of detail, but record actuals at a lower level within the same cost code.

Method B – Buyout

- Used for subcontracts and non-inventory purchase orders
- Projected final values = actuals plus open commitments (must recalculate projections)

Method G – Revenue

- Conservative approach
- To be able to recognize more revenue than what was budgeted, you must revise your billing estimate!

Cost code structures

Methods of computation (job forecasting)

- A – Account budget - forced
- B – Buyout or fixed price contracts
- C – Percent complete from cost code header
- D – Default
- E – Estimate to complete
- F – Forced
- G – Budget default – forced
- H – Labor quantity
- I – Include
- L – Labor
- N – No projection
- O – Override
- P – Percent complete
- Q – Quantities
- R – Revenue - unit price Contract
- S – Summary
- T – Total
- U – Remaining unit rate
- V – Revenue - absolute value

If that isn't enough...ask me about Advanced Job Forecasting!!

Profit recognition

Overview

- Definition: Recognition of job activity for financial income statement purposes
 - Timing of cost activities
 - Difference between billings and revenue
- Types of recognition
 - Account level vs. job level
 - Based on percent of cost or revenue
- Process
 - Ability to generate work file
 - Ability to adjust/override jobs as necessary
 - Ability to finalize work file for financial recognition journal entry purposes

New revenue recognition functionality available

Profit recognition

Journal entries

The following journal entries are created based on job's profit information:

- **Recognize revenue & cost** – used to move WIP amounts from the WIP on the balance sheet to cost of sales and revenue accounts on the income statement based on the percentage of completion.
 - Debit: Income statement (IS)
 - Credit: WIP on balance sheet (BS) (financial accounts on job to zero out @ ME)
- **Over-billing**** – when actual revenue is *more* than your earned-to-date revenue on a job.
 - Debit: Revenue account (IS)
 - Credit: Unearned revenue liability account (BS)
- **Under-billing**** - when actual revenue is *less* than your earned-to-date revenue on a job.
 - Debit: Accrued revenue asset account (BS)
 - Credit: Unbilled revenue account (IS)
- **Provision for loss**** – when the projected final amounts result in a projected loss, the entire loss amount is recorded in the period when the loss occurred.
 - Debit: Cost of sales accounts (IS)
 - Credit: Liability account (BS)
- **Accrued / deferred cost**** – used to manually recognize more or less cost than what would typically be recognized. (Automatically reversed out in the following month.)
 - Debit: Income statement (IS)
 - Credit: WIP on balance sheet (BS)

** - Auto-reversing journal entry

Job Cost: Summary

- Used for projects with a longer duration / more complex jobs
- Job Cost vs. G/L Relationship
- Flexible cost code structure design
- Many more ledger types available to incorporate
- Forecasting functionality
- Profit (Revenue & Cost) Recognition

Engineer To Order (ETO)

1. What is ETO?
2. Why Engineer to order?
3. ETO Process
 - a) Project estimating / quoting
 - b) Project scheduling
 - c) Actual cost accounting
 - d) Project requirement planning



What is ETO?

JD Edwards functionality to manage project-based Engineer To Order (ETO) processes throughout all phases of the project lifecycle, allowing you to have visibility of all operational activities and capture costs in a complex, mixed-mode production environment.

Key features are:

- **Project Estimating and Quoting** - Intuitive project workbench to build a project work budget and work breakdown structure (WBS) that depicts tasks/activities that must be performed to meet customer demands at the margins you require
- **Project Scheduling** - capabilities that let you set the timeline by using standard constraints, such as task dependencies, critical paths, and resource availability
- **Actual Cost Accounting** – track actual cost to each project phase of the project from the WBS with roll up from lower levels
- **Project Requirement Planning** - visibility to manage and recommend acquisition of supplies for the quoted project with a view of supply and demand for the project work

Why Engineer To Order?

- Engineer-to-order provides:
 - Support for meeting your complex project based requirements
 - Support for meeting your customer's requirements if they are in a project based environment (consolidation, installation)
 - Tracking of all tasks that impact project delivery dates
 - Visibility of when dependent tasks are late
 - Control over scheduling orders and cost associated with project
 - Resolution of issues with order changes and order consolidation

ETO Integrations

- JD Edwards EnterpriseOne Supply Chain Manufacturing
 - Configurator
 - Manufacturing – PDM
 - Manufacturing – Shop Floor
 - Quality Management
- JD Edwards EnterpriseOne Order Management
 - Sales Order Management
- JD Edwards EnterpriseOne Supply Management (Procurement)
 - Procurement Management
- JD Edwards EnterpriseOne Supply Chain Execution (Logistics)
 - Inventory Management
- JD Edwards EnterpriseOne Project Management
 - Project Costing (Job Cost Accounting)
 - Project Change Management
 - Contract and Service Billing

Why Engineer To Order?

<p>Sales Order Centric Sales Cycle</p>	<ul style="list-style-type: none">• Sales Orders fulfill products from stock and ship directly to end customer<ul style="list-style-type: none">• Make to Stock/Purchase to Stock/Supplier Direct Ship – Non Stock/Configure to Order• Sales Orders have a shorter execution cycle time• Typically fewer changes and delays (backorder)• Standard Pick/Pack/Ship processes• Standard Invoice process
<p>Project Task Centric Sales Cycle</p>	<ul style="list-style-type: none">• Project Orders require work breakdown structures to organize many tasks with dependencies to support project execution and delivery<ul style="list-style-type: none">• Stock/Supplier Direct Ship – Non Stock/Configure to Order• Engineer To Order (design/drawing/measure activities)• Project Orders have a longer execution cycle time• Production/Purchase/Shipping execution tied to specific project tasks (installation/construction complete)• Post production activities required to close out project• Flexible Invoice processes required<ul style="list-style-type: none">• Contract billing• Progress/Milestone billing• GC subcontractor billing process

Engineer to Order Process Flow

Project Initiation

- Proposal/Quote
- Budget/WBS

Project Planning

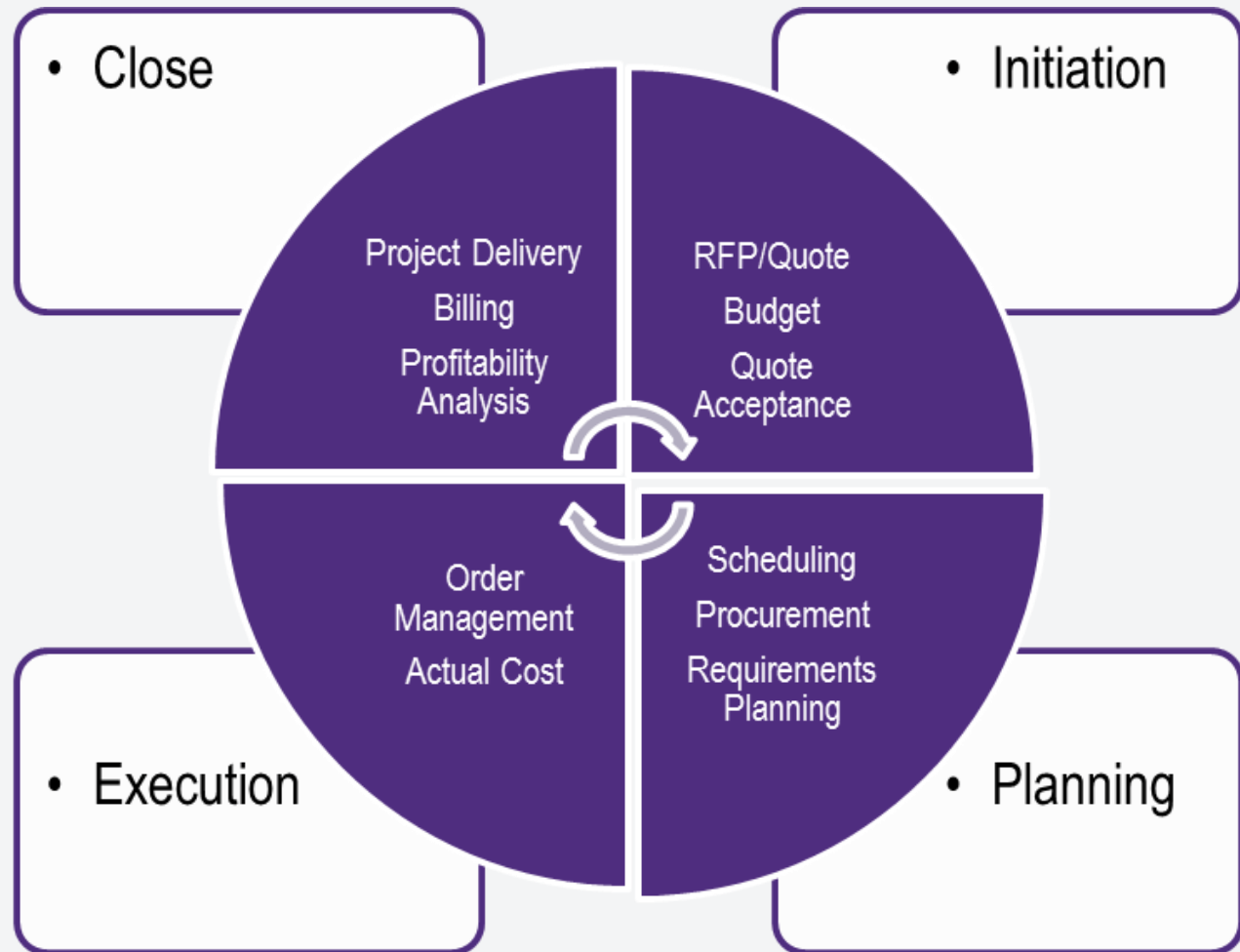
- Project Scheduling
- Long Lead Procurement
- Project Requirements Planning

Project Execution

- Production Management
- Actual Costing

Project Close

- Project Delivery
- Project Billing
- Profitability Analysis



Project Workbench

Key User Actions

- Single point of access for project management
- Create a new project
- Copy a project from a template
- Manage/edit project tasks

Project Workbench - ETO: Project Workbench - Search for Projects Personal Form: (Nc)

Project Number	*	Branch/Plant	*
Project Description	*	Business Unit	*
Planned Start Date - From	*	To	*
Planned End Date - From	*	To	*
Status From	30	To	*

More Row Actions -- Select One --

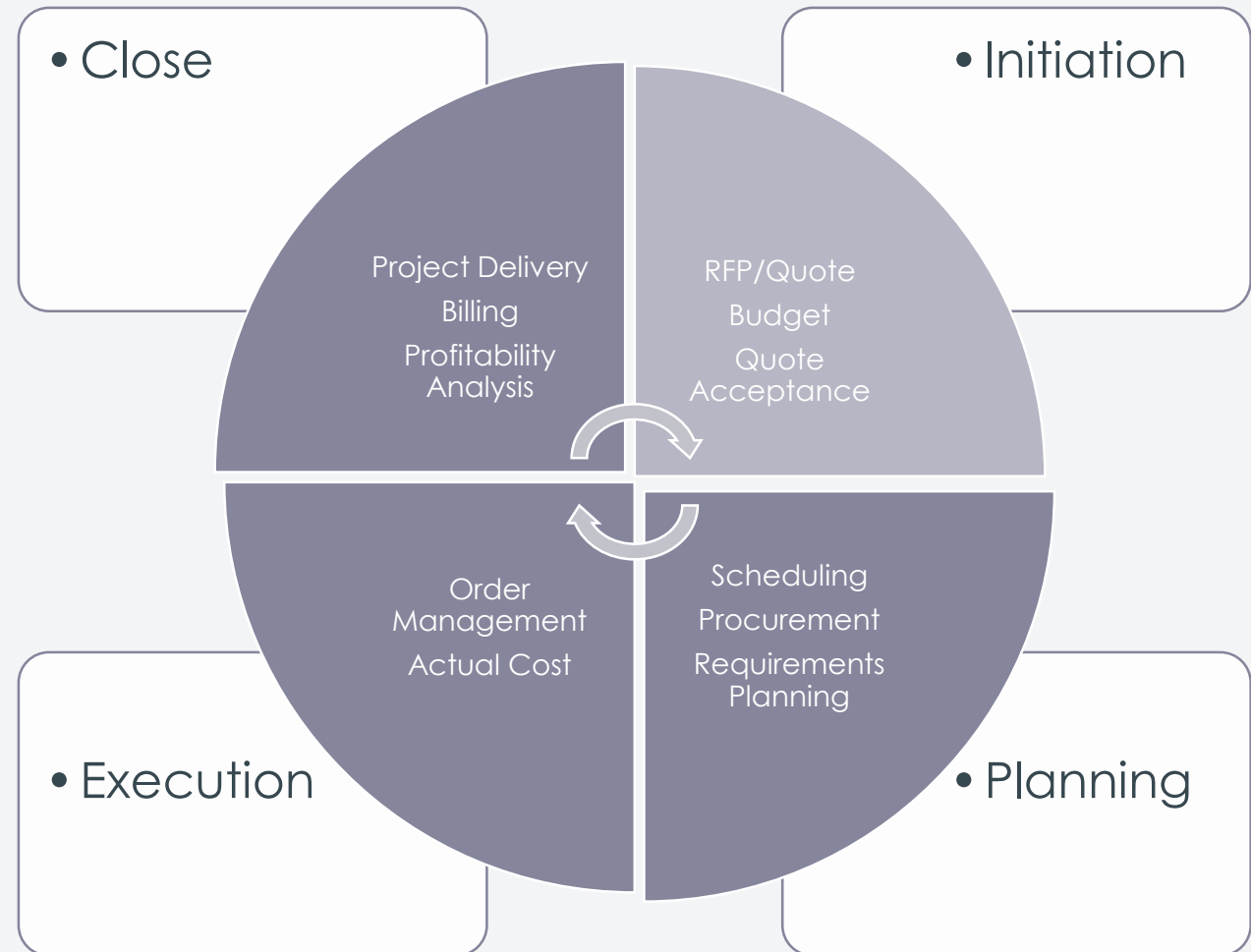
Records 1 - 7

	Project Number	Project Description	Company	Type	Status	Status Description	Branch Plant
<input checked="" type="radio"/>	522693	STC Production Execution	00200	ET	30	Paperwork Printed	M30
<input type="radio"/>	523119	STC Project Initiation Ex 01	00200	ET	30	Paperwork Printed	M30
<input type="radio"/>	523629	STC Project Initiation Ex 02	00200	ET	30	Paperwork Printed	M30
<input type="radio"/>	524138	STC Project Close Ex 01	00200	ET	30	Paperwork Printed	M30
<input type="radio"/>	524592	STC Project Planning Example	00200	ET	30	Paperwork Printed	M30
<input type="radio"/>	525229	STC Project Planning Example 2	00200	ET	30	Paperwork Printed	M30
<input type="radio"/>	526109	STC Project Planning v3	00200	ET	30	Paperwork Printed	M30

Engineer to Order Project Life Cycle

Project Initiation

- Create a project
- Define high-level phases and tasks
- Determine an estimated schedule
- Calculate estimated costs
- Determine a price and generate a quote/proposal



Phase – Project Initiation

Key User Actions

- Define high-level phases and tasks



Project Workbench - View All Tasks

Close

Project Number: 57280 Mfg Project Pre-Quote Customer Number: 43103

Estimated Cost: 149,381.25 Planned Cost: 65,381.25 Budgeted Cost: Actual Cost:

More Project Actions: -- Select One --

Basic Financial Plan Financial Actuals Scheduling Details Order Details

More Task Actions: -- Select One --

Records 1 - 8 Expand All Collapse All

	Description	Branch Plant	Task Number	Task Type	Item Number	QTY Ordered	UoM	Task Status	Shippable
<input checked="" type="radio"/>	...	310	57280	ET				09	0
<input type="radio"/>	Engineering	310	57281	ET				09	0
<input type="radio"/>	Design Engineering	310	57286	ET				09	0
<input type="radio"/>	Manufacturing Engineering	310	57287	ET				09	0
<input type="radio"/>	Procurement	310	57282	ET				09	0
<input type="radio"/>	Manufacturing	310	57283	ET				09	0
<input type="radio"/>	On-site Installation	310	57284	ET				09	0
<input type="radio"/>	Project Close	310	57285	ET				09	0

Phase – Project Initiation

Key User Actions

- Establish estimated cost to support financial budget and quote or proposal /Link to Job Cost



Project Workbench - View All Tasks

Close

Project Number57280Mfg Project Pre-QuoteCustomer Number43103









Estimated Cost149,381.25Planned Cost65,381.25Budgeted CostActual Cost

More Project Actions-- Select One --

BasicFinancial PlanFinancial ActualsScheduling DetailsOrder Details

More Task Actions-- Select One --

Records 1 - 8Expand AllCollapse All

	Description	★	Task Number	Task Type	Estimated Material	Estimated Labor	Estimated Other	Estimated Special Units	Estimated Special Amount
<input checked="" type="radio"/>			57280	ET					
<input type="radio"/>	 Engineering		57281	ET					
<input type="radio"/>	 Design Engineering		57286	ET					
<input type="radio"/>	 Manufacturing Engineering		57287	ET					
<input type="radio"/>	 Procurement		57282	ET					
<input type="radio"/>	 Manufacturing		57283	ET					
<input type="radio"/>	 On-site Installation		57284	ET					
<input type="radio"/>	 Project Close		57285	ET					

Phase – Project Initiation

Key User Actions

- Determine a price and generate a quote/proposal



Project Workbench - Project Quote Revisions

✓ ✗ ⚙ Form ⚙ Tools

Project Info Quote Info Related Sales Quote Reason Code People

Business Unit

Project Number ☐ Display Calculated Total

Currency Code Exchange Rate Base Currency ☐ Foreign

Records 1 - 21 > >

	<input type="checkbox"/>	Selected Calc	Selected Display	Seq No	Order Description	Estimated Amount	Estimated Override	Margin Percent	Quote Amount	LOD
<input checked="" type="radio"/>	<input type="checkbox"/>		0	5.000	System Pricing					4
<input type="radio"/>	<input type="checkbox"/>	0	0	6.000	Product Orders					5
<input type="radio"/>	<input type="checkbox"/>	1	1	7.000	CMCC 01	13,040.00	15,000.00	35.000	20,250.00	6
<input type="radio"/>	<input type="checkbox"/>	1	1	8.000	Direct Ship Orders	225.00	500.00	50.000	750.00	5
<input type="radio"/>	<input type="checkbox"/>	0	0	9.000	Install Orders					5
<input type="radio"/>	<input type="checkbox"/>	0	0	10.000	Proforma Invoice					4

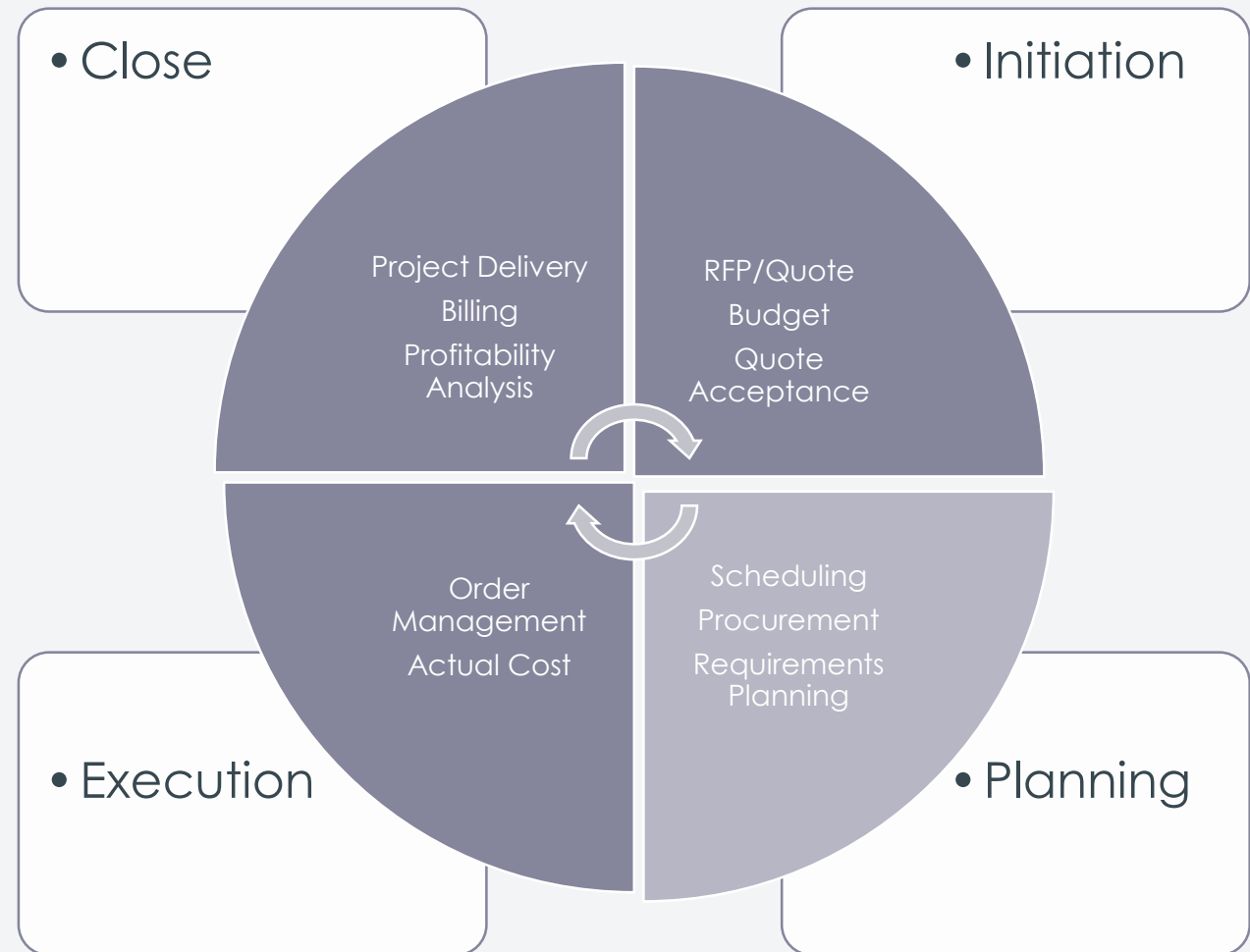
Project Initiation Benefits

- Ability to create project with WBS task structure to support several tasks required to purchase, build, and deliver product
- Ability to define estimated cost or planned cost for each WBS task
- Ability to establish multiple project quotes based upon the project tasks estimated cost or planned cost
- Ability to generate sales quote or sales proposal based on selected project quote details
- Ability to have quote acceptance move quoted costs into project budget
- Ability to generate project sales order from sales quote

Engineer to Order Process Flow

Project Planning

- Project Scheduling
- Long Lead Procurement
- Project Requirements Planning



Phase – Project Planning

Key User Actions

- Refine the project information and schedule dates



Project Workbench - Edit Tasks Personal Form: (No Personalization)

[Save and Continue](#) [Save and Close](#) [Cancel](#)

Project Number: 524592 STC Project Planning Example Customer Number: 4242

Estimated Cost: 7,017,928.31 Planned Cost: 4,149,168.31 Budgeted Cost: Actual Cost:

☒ Forward Schedule ☐ Backward Schedule [Check for Conflict](#) More Project Actions: -- Select One --

[Basic](#) [Financial Plan](#) [Financial Actuals](#) [Scheduling Details](#) [Order Details](#)

More Task Actions: -- Select One --

Records 1 - 45 [Expand All](#) | [Collapse All](#)

	Description	Task Number	Task Type	Duration	Planned Start	Planned End	Successors	Fixed Task Type	Actual Start
<input type="radio"/>	Reserve Orders	524787	ET	5	09/05/2019	09/11/2019			
<input type="radio"/>	Data Management	524795	ET	30	09/05/2019	10/16/2019	524816FS+1		
<input type="radio"/>	Project Management	524808	ET	55	10/16/2019	12/31/2019			
<input type="radio"/>	Order Review/Audit	524816	ET	2	10/16/2019	10/17/2019	524832,525042		
<input type="radio"/>	Execution Orders	524824	ET	54	10/17/2019	12/31/2019	524955		
<input type="radio"/>	Standard Manufactured	524832	ET	22	10/17/2019	11/15/2019			
<input type="radio"/>	Standard Manufactured v2	527081	WO	3	12/27/2019	12/31/2019			
<input type="radio"/>	Project Manufactured	525042	ET	54	10/17/2019	12/31/2019			
<input checked="" type="radio"/>	Project Specific FG	525069	WO	12	10/17/2019	11/01/2019			
<input type="radio"/>	Project Specific FG	527072	WO	12	10/17/2019	11/01/2019			

[Insert Above](#) [Insert Below](#) [Insert Child](#) [Delete](#)

Phase – Project Planning

Key User Actions

- Establish task dependencies and resources
- Link to MS Project


Project Workbench - Task Dependencies Pers

✓ 🔍 🗑️ ✖️ ⚙️ Tools

Predecessor Number * Project Number 57280

Successor Number * Dependency Type *

Records 1 - 3

	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	 Predecessor Number	Predecessor Description	Successor Number	Successor Description	Dependency Type	Lag Time
<input checked="" type="radio"/>	<input type="text"/>	...	<input type="text"/>		<input type="text"/>	<input type="text"/>
<input type="radio"/>						
<input type="radio"/>						

«

Phase – Project Planning

Key User Actions

- Run the Requirements Planning program, based on the task information on the work breakdown structure, to generate the detail planning messages that the system uses to generate purchase orders and work orders for replenishment

Project Workbench - View All Tasks

Close

Project Number 57280 Mfg Project Pre-Quote Customer Number 43103

Estimated Cost 149,381.25 Planned Cost 65,381.25 Budgeted Cost Actual Cost

More Project Actions -- Select One --

Basic Financial Plan Financial Actuals Scheduling Details **Order Details**

More Task Actions -- Select One --

Records 1 - 8 [Expand All](#) | [Collapse All](#)

	Description	Task Number	Task Type	WO Type	Item Number	QTY Ordered	QTY Completed	UoM	Item Descripti
<input checked="" type="radio"/>	Engineering	57280	ET						
<input type="radio"/>	Design Engineering	57281	ET						
<input type="radio"/>	Manufacturing Engineering	57286	ET						
<input type="radio"/>	Procurement	57287	ET						
<input type="radio"/>	Manufacturing	57282	ET						
<input type="radio"/>	On-site Installation	57283	ET						
<input type="radio"/>	Project Close	57284	ET						
<input type="radio"/>		57285	ET						

Phase – Project Planning

Key User Actions

- Create orders related to project task (purchase, direct ship)



PURCHASE ORDER

DATE: **NOVEMBER 24, 2010**

<p>FROM:</p> <p>YOUR NAME YOUR COMPANY 554 STREET NAME CITY, STATE 55555 USA (555) 555-5555 email@yourcompany.com www.yourcompany.com</p>	<p>TO:</p> <p>CLIENT NAME CLIENT COMPANY 666 STREET NAME CITY, STATE 55555 USA CITY 555-555 email@clientcompany.com www.clientcompany.com</p>
--	--

FOR:

Item	Goods, Services	Qty	Unit Price	Price
1	SOME SERVICE	1	29.99	29.99
2	ITEM BOLD	1	45.00	45.00
3	ANOTHER SERVICE	1	55.00	55.00
4				
5				
6				
7				
8				
TOTAL:				\$129.99

NOTES:

Payment terms of net 30, or payment according to our customer terms page, applies unless you specify a different payment term. Payment methods include: check, credit card, or payment according to our customer terms page. Please include payment terms on back of document if applicable. Please refer to our terms and conditions document on our website for more information.

Related Order - Work with Related Orders

Row
 Tools

Project	Descriptive Task	
Number <input type="text"/>	Number <input type="text"/>	
Description <input type="text"/>	Description <input type="text"/>	
Status <input type="text"/>	Status <input type="text"/> Form Action -- Select One --	

*** Related Orders Tree ***

Order Details
Item Details

Records 1 - 1

	Project Number	Order Number	Order Type	Order Co	Order Suffix	PO / SO Line Number	Order Description

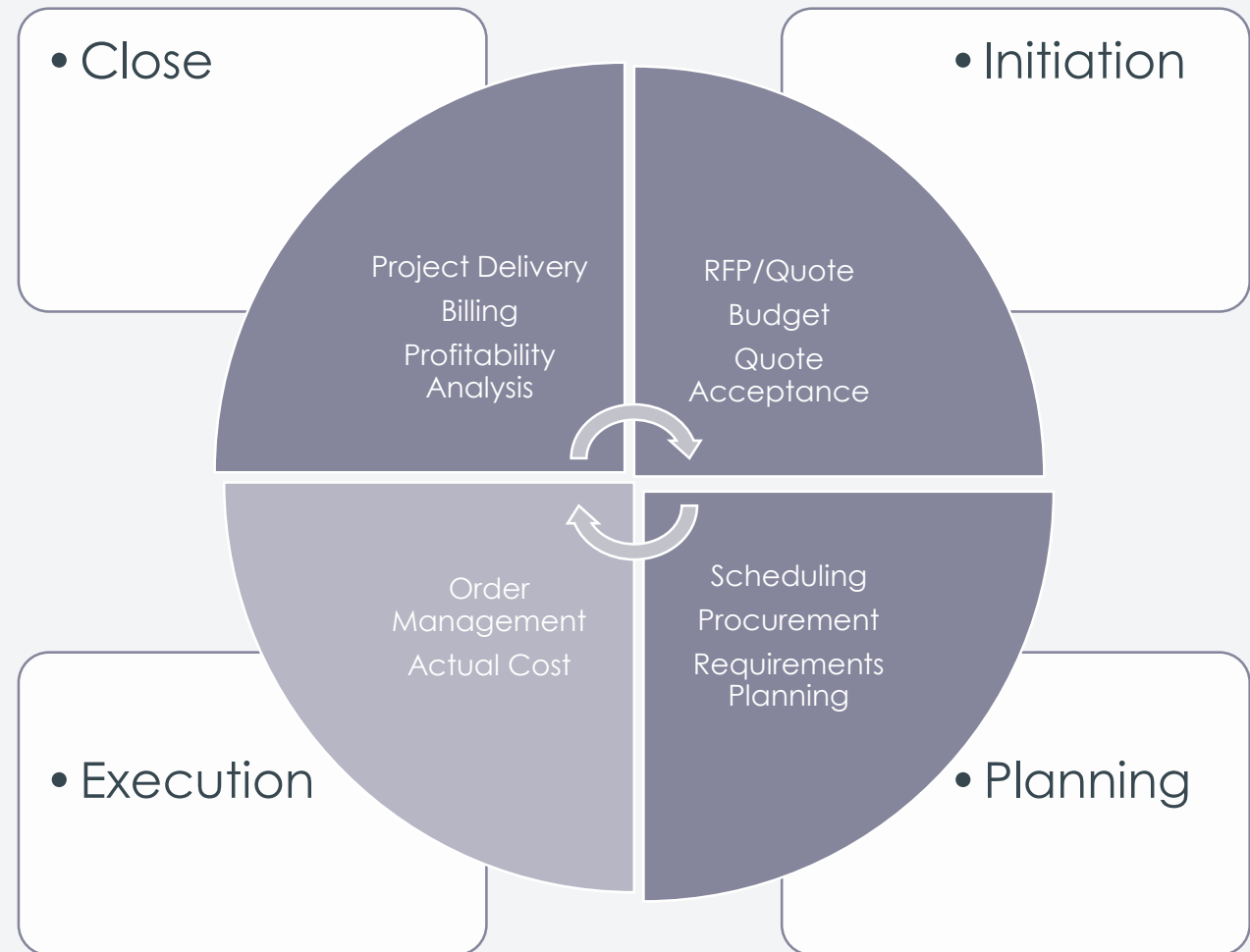
Project Planning Benefits

- Ability to plan and schedule non manufacturing based activities
- Ability to define multiple types of task dependencies
- Ability to associate work orders with WBS activities within projects
- Ability to assign and schedule resources by activity
- Ability to automatically drive scheduling changes to dependent tasks
- Ability to drive project specific demand
- Ability to use native JD Edwards work flow notifications
- Ability to review entire project plan within a single session

Engineer to Order Process Flow

Project Execution

- Production Management
- Actual Costing
- Updates to Job Cost and Budgets



Phase – Project Execution

Key User Actions

- Manually create work orders and purchase orders for the project tasks
- Perform work order issues, labor reporting and completions
- Complete order consolidation
- Complete shipping

Project Workbench - Edit Tasks

Save and Continue Save and Close Cancel

Project Number 522693 STC Production Execution Customer Number 4242

Estimated Cost 4,000.00 Planned Cost 38,843.83 Budgeted Cost Actual Cost

☒ Forward Schedule ☐ Backward Schedule Check for Conflict More Project Actions -- Select One --

Basic Financial Plan Financial Actuals Scheduling Details Order Details

More Task Actions -- Select One --

Records 1 - 50 Expand All Collapse All

	Description	Branch Plant	Task Number	Task Type	Item Number	QTY Ordered	UoM	Task Status	Shippable
	Standard Purchased	M30	522950	ET				10	0
	Configured Direct Ship Orders	M30	522968	ET				10	0
	Configured Work Orders	M30	522976	ET				10	0
	CMCC WO #1	M10	523522	WO	CMCC	10	EA	95	1
	CMCC WO #2	M10	523531	WO	CMCC	15	EA	95	1
	CMCC WO #3	M10	523549	WO	CMCC	5	EA	95	1
	CMCC WO #4	M10	523557	WO	CMCC	8	EA	10	1
	CMCC WO #5	M10	527005	WO	CMCC	5	EA	95	1
	Install Orders	M30	522984	ET				10	0

Insert Above Insert Below Insert Child Delete

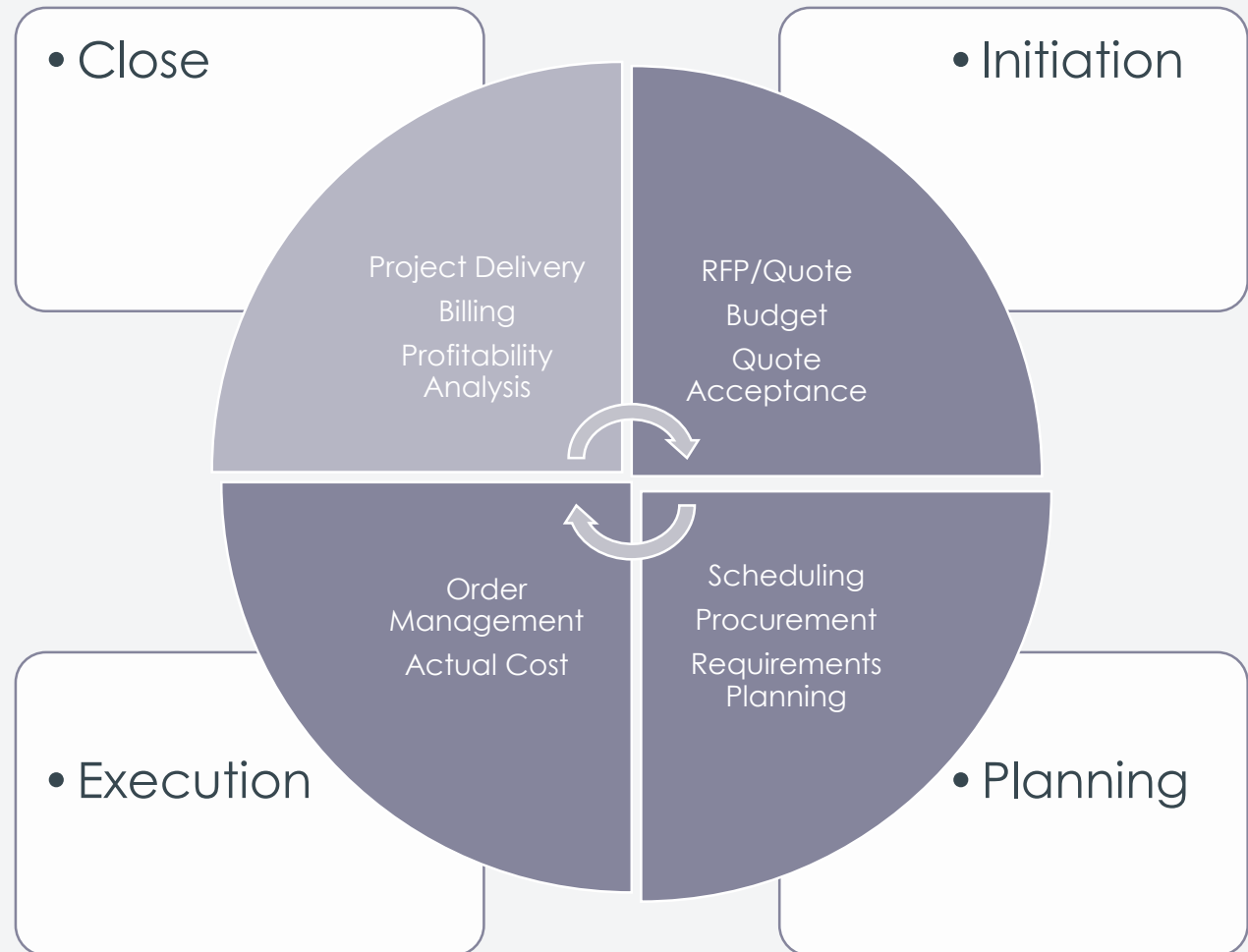
Project Execution Benefits

- Ability to create configured work orders and purchase orders related to project phases
- Ability to process issues, labor reporting and completions for project work orders from product workbench
- Ability to create sales order lines to ship product when complete from the product workbench
- Ability to create direct ship orders, purchase orders and transfer orders that are related to project tasks and accumulate the cost to the project (supports consolidation process)
- Ability to track actual cost as they occur during execution and compare to estimated and budgeted cost

Engineer to Order Process Flow

Project Close

- Project Delivery
- Project Billing
- Profitability Analysis



Phase – Project Close

Key User Actions

- Roll up final project costs
- Project billing
- Close tasks and project



Project Workbench - Project Inquiry									
Tree Control Expand Tree Row Form Tools One View									
Project Number 57292 Mfg Project Post-Quote ET									
Records 1 - 12									
	Description	Task Number	Branch Plant	Type	WO Type	Task Status	Resources Assigned	Percent Complete	
<input type="radio"/>	▲ Mfg Project Post-Quote	57292		310 ET		09	0		
<input type="radio"/>	▲ Engineering	57293		310 ET		09	0		
<input type="radio"/>	▲ Design Engineering	57302		310 ET		09	0		
<input type="radio"/>	▲ Manufacturing Engineeri...	57303		310 ET		09	0		
<input type="radio"/>	▲ Procurement	57294		310 ET		09	0		
<input type="radio"/>	▲ Direct Project Purchases	57304		310 ET		09	0		
<input type="radio"/>	▲ Manufacturing	57295		310 ET		09	0		
<input type="radio"/>	▲ Mfg Item 1	57306		310 WO	P	09	0		
<input type="radio"/>	▲ Mfg Item 2	57321		310 WO	P	09	0		
<input type="radio"/>	▲ On-Site Installation	57296		310 ET		09	0		
<input type="radio"/>	▲ On-Site Service	57305		310 SV		09	0		
<input checked="" type="radio"/>	▲ Project Close	57297		310 ET		09	0		

Project Close Benefits

- Ability to have visibility of all tasks involved in complex projects and ensure that all tasks are complete using online inquiries, project reports, and the project close analyzer
- Ability to roll up all work order cost and associated related order costs to project tasks
- Ability to perform profitability analysis at project close
- Ability to complete project billing using standard contract billing for a more flexible and detailed invoice/billing process

Summary

- Functionality discussed (simple to more complex):
 1. General Ledger
 2. Work Orders
 3. Job Cost
 4. Engineer-to-Order (ETO)
- Each is available for use, depending on your specific requirements
- Understanding the level of detail necessary to track for your project is the key to success
- Please reach out if you have any questions regarding which would be best for your needs...Thank you!!

Any Questions?



Hear more from Grant Thornton

Stop by our booth—our team of JDE experts will be on hand to answer your questions....AND we're giving away a Ring security camera!

Tuesday

- **Options for configuring project cost detail within JDE** | Craig Davied and Aaron Wood | 2:00 p.m.
- **8 easy steps to evaluate the effectiveness of your EAM/CAM asset maintenance program** | Steve Yniguez | 3:15 p.m.

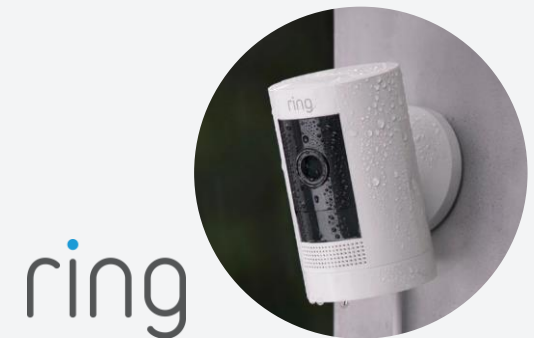


Wednesday

- **Where are all my orchestrators at? Let's take a look at notifications and UDO security** | Anthony Palmisano and Mohammad Shujaat | 8:15 a.m.
- **Import thousands of Invoices from your AP automation platform into JDE in seconds!** | David Kratzke and Mohammad Shujaat | 8:15 a.m.
- **Auto tendering transportation Carriers in JD Edwards** | Craig Davied | 3:00 p.m.
- **Positive pay 2.0: Now with 100% more orchestrations** | Mohammad Shujaat and Rick Snell, Murphy USA | 4:00 p.m.

Thursday

- **Realizing joint ventures in JDE** | Craig Davied | 8:15 a.m.
- **Workflow options with JD Edwards Orchestrator** | Dwight Moore and Anthony Palmisano | 11:15 a.m.
- **Automating currency exchange rates using JD Edwards & orchestrator** | Mohammad Shujaat and Anthony Palmisano | 1:15 p.m.



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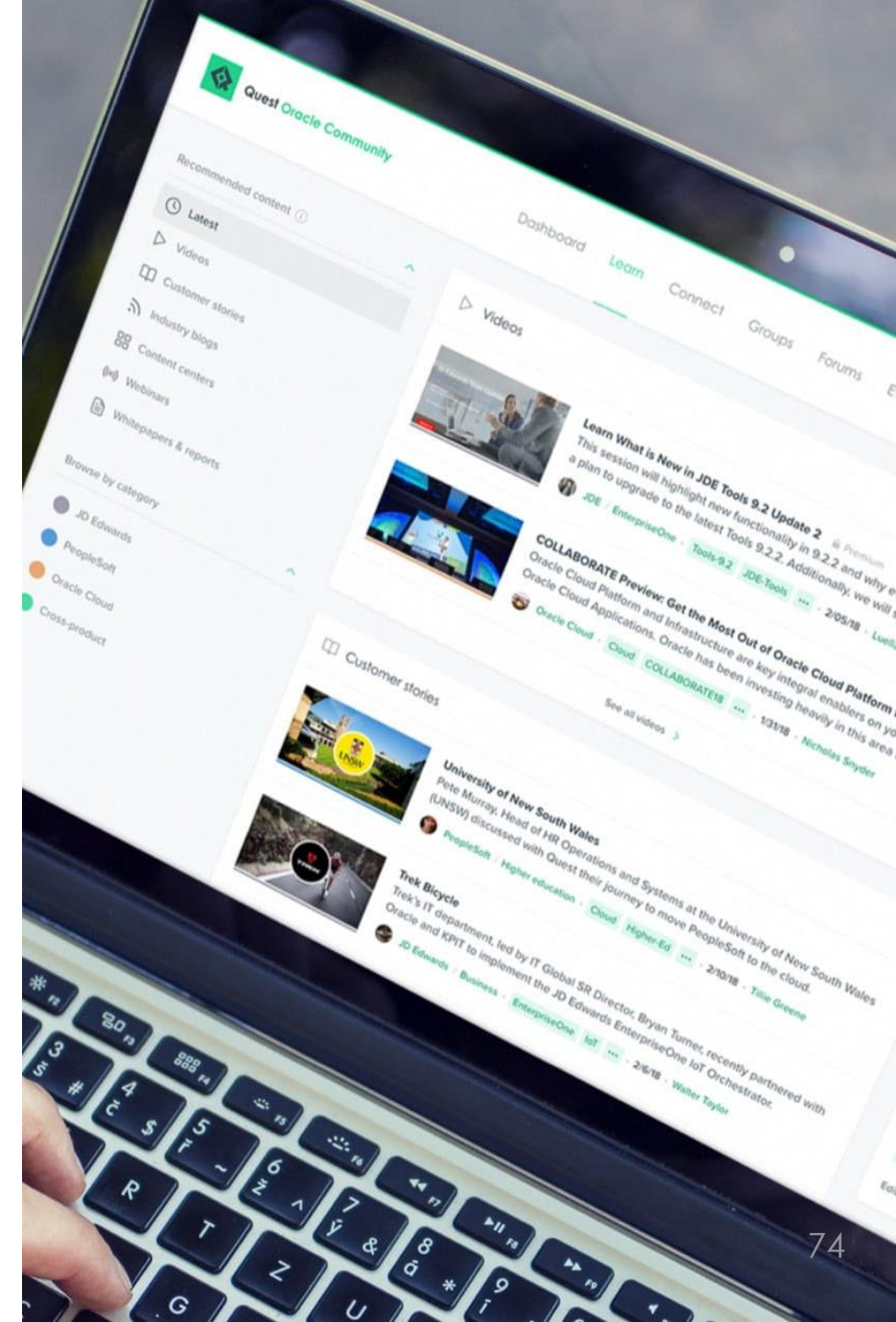
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