Finance & Accounting Process Cycles, Foundation to Automation

Sample of Instruction Slides

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Course overview

Why was the course created?

Many finance and accounting professionals have expressed concerns over the last few years that newly minted accountants coming out of college lack an understanding of the scope of a typical corporate finance function.

This course is designed to prepare students to assess if their real-world working environment is still developing stability or is it advancing towards market leading performance.

Course examines the baseline of activities in three core F&A process cycles, and the tools and technology that enable each cycle.

Three Core Process Cycles Examined

- 1. Order-to-Cash (OTC)
- 2. Procure-to-Pay (P2P)
- 3. Record-to-Report (RTR)

Major Elements of the Course

Process Cycle Topics

- Finance Operating Model
- Service Delivery Model
- Process Cycle Framework
- Key Internal Controls
- Performance Metrics
- Leading Practices
- Technology Solutions

Case Studies

- OTC Challenges
- P2P Challenges

Automation Discussions

- Robotic Process
 Automation (RPA)
- Machine Learning (ML)
- Artificial Intelligence (AI)

Note on course slides and instruction periods

- The instruction facilitation presentations are divided into six sections with each section estimated to require 3 to 5 teaching periods.
- The total course with two test periods and one group presentation period is estimated to require 26 teaching periods. Each period estimated to be 50 to 60 minutes in length.
- Nearly all instruction slides are editable by the instructor. Four graphics that required advanced graphic design services are pictures.
- Instructor slide facilitation notes can be supplied as needed

Learning objectives for each section of the facilitation presentations

Section	Learning Objective 1	Learning Objective 2	Learning Objective 3	Learning Objective 4	Learning Objective 5
1. Finance & Accounting Function Overview	Identify the high-level core accounting processes and cycles	Describe the components of the finance & accounting operating model for a business entity	Identify the components of a leading finance & accounting service delivery model for a business entity		
2. Business Process Framework, Performance Measurement, And the Foundations of Process Automation	Identify the finance and accounting elements in the APQC Standard Business Classification Framework	Identify the Key Performance Indicators (KPIs) used in measuring the performance of finance and accounting process cycles	Describe how benchmarking is used to identify areas in a business process that require improvement	Identify the foundational elements of business process automation available today, and the promise of expanded automation in the future	
3. Business Process Analysis Methods	Identify how a critical process weakness is identified through the examination of Key Performance Indicators (KPI) and the use of process maturity model, process leading practices, and process gap analysis tools	Describe how headcount related cost and productivity performance metrics are calculated and used in process analysis	Describe how process cycle time performance metrics are calculated and used in process analysis		
4. Order-to-Cash (OTC): Leading Practice View of Process Cycle Structure and Service Delivery	Describe the taxonomy structure of the OTC process cycle	Identify the key internal controls in the OTC process cycle	Describe the leading practices high performing organizations employ at the business activity level in the OTC process cycle	Identify the capabilities of leading technology solutions and automation in the OTC process cycle	Discuss how Cargill addressed their key challenges in transforming the OTC process cycle
5. Procure-to-Pay (P2P): Leading Practice View of Process Cycle Structure and Service Delivery	Describe the taxonomy structure of the P2P process cycle	Identify the key internal controls in the P2P process cycle	Describe the leading practices high performing organizations employ at the business activity level in the P2P process cycle	Identify the capabilities of leading technology solutions and automation in the P2P process cycle	Describe how Gallagher addressed their key challenges in transforming the P2P Expense Reimbursement process
6. Record-to-Report (RTR): Leading Practice View of Process Cycle Structure and Service Delivery	Describe the taxonomy structure of the RTR process cycle	Identify the key internal controls in the RTR process cycle	Describe the leading practices high performing organizations employ at the business activity level in the RTR process cycle	Identify the capabilities of leading technology solutions and automation in the RTR process cycle	

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Finance & Accounting Process Cycles: Foundation to Automation

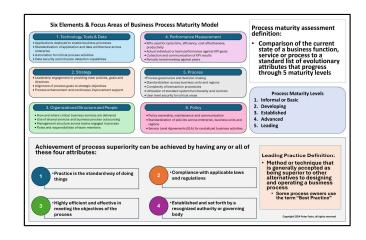
Reading materials for the course

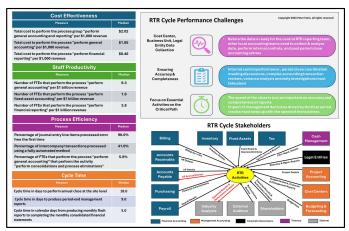
- There is no textbook for this course
- Students are expected to read the articles, case studies, technology briefs, and process design study aids detailed to the right
- All reading materials and instruction slides that are copyrighted will be provided with a proper licensing agreement or disclosure as required by the author

- Process Classification Framework, Version 7.2.1, Created 01/09/2020, American Productivity & Quality Center (APQC)
- Financial Supply Chain Management, Article, published by Driver Logistics, August 2023
- Glossary of Process and Performance Excellence Terms, K05313, 2018, American Productivity & Quality Center (APQC)
- End to End Global Process Ownership in Finance, Article, August 17, 2020;
 American Productivity & Quality Center (APQC)
- APQC's Open Standards Benchmarking Measures List, 02/21/2023, American Productivity & Quality Center (APQC)
- Insights on automating desk work with Robotic Process Automation (RPA), by Keyence Corporation, 2023
- Gallagher, P2P Case Study from APQC
- Cargill, OTC Case Study from APQC

Student reference materials and study aids from instruction slides

- Four study aid documents are available for the students to use as a reference during the instruction periods
- The documents are in a "placemat format" and designed to be printed on 11"x17" tabloid size paper on both sides
- The study aids contain images of graphics taken from the instruction slides
- A sample of the study aid placemats has not been included but the thumbnail pictures to the right are a representative sample of them





Section 1:

Finance & Accounting Function Overview

Sample Slides: 7

Total Slides in Instruction Facilitation Presentation: 35

What accounting principles, guidelines and rules must Finance & Accounting processes support in the United States?

Four Levels of US Generally Accepted Accounting Principles (GAAP)

FASB • State

- Statements
- Interpretations

SEC • Rules

Interpretive Release

AICPA

- Research Bulletins
- Opinions

FASB

• Technical Bulletin

AICPA (FASB Cleared)

- Industry Audit & Accounting Guide
- Statements of Position

FASB

Emerging Issues Task
 Force Positions

AICPA

Practice Bulletins

- FASB
 - Implementation Guides

AICPA

- Accounting Interpretations
- Statements & Guides not Cleared by FASB

- Financial Accounting Standards
 Board (FASB) is the source of
 authoritative accounting standards
 to be followed by nongovernmental
 entities in the United States
- Securities and Exchange Commission (SEC) is a source for authoritative GAAP for US public companies
- American Institute of Certified Public Accountants (AICPA) is a nonauthoritative source of accounting guidance

What makes Finance & Accounting (F&A) processes so different than other business processes?

- F&A processes and support systems must be designed to record information that will become the basis for management's implicit and explicit assertions in the financial statements
- The five management assertions were documented in the 2010 release of Auditing Standard No. 15, Audit Evidence, by the Public Company Accounting Oversight Board (PCAOB)



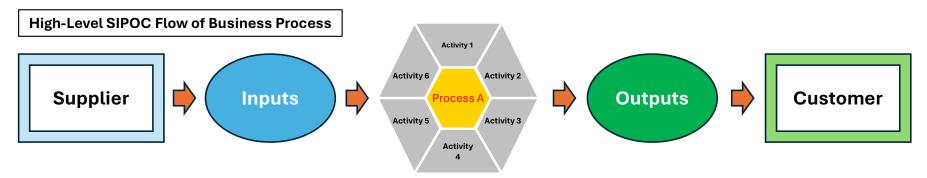
What is a business process?

Definition

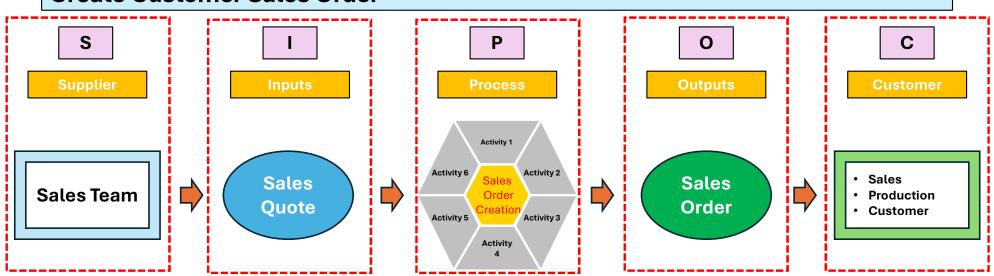
 Series of interrelated activities that transform inputs into results (outputs)

Principals of Business Process Design

- Require standards to ensure repeatable performance
- Supported by control systems to regulate quality of services
- Monitored to measure error rate, processing time and cost of outputs



Major activities of a core finance & accounting process in a SIPOC diagram: Create Customer Sales Order



Business Activity 1

 Review sales quote and contract details to ensure all necessary sales order details are present

Business Activity 2

 Ensure pricing in sales quote has been validated against price list, contract, and allowed discounts

Business Activity 3

Contact Sales
 Team and
 customer to
 obtain missing
 sales order
 details

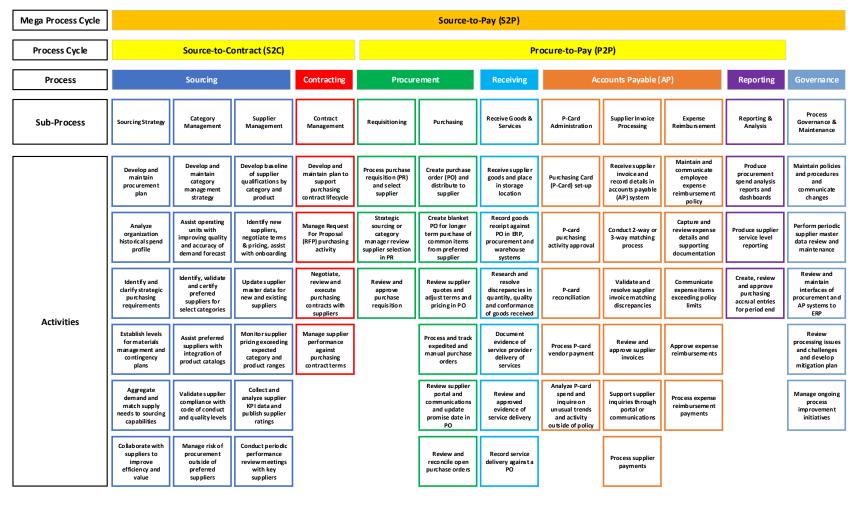
Business Activity 4

 Create sales order and obtain delivery promise date from production team

Business Activity 5

 Communicate sales order details to sales team and customer

Procure-to-Pay (P2P) Process Framework



The larger S2P
mega process
cycle is presented
here to provide
greater context to
the complex
inputs to the
Procure-to-Pay
(P2P) process
cycle

Five key dimension of the Finance & Accounting Operating Model



Process & Policy

- Standard processes and documented policies across regions
- Process owners to monitor performance and manage enhancements and training
- Automation of routine and repetitive manual steps
- Workflow tools to reduce cycle times



Performance Management

- Monitoring Key Performance Indicators (KPIs) for operations and investors
- KPI targets set for operating units and linked to individual performance reviews
- Culture of pursuing initiatives to address issues in performance results



Technology and Data

- Solutions and services to support strategic goals
- Data and application architecture to support business processes
- · Standard platforms and interfaces
- Cyber security

Operational Strategy

- · Definition of strategic goals
- · Aligning operating units to goals
- Business model and go-to-market approach
- Revenue generation and cost control
- Growth organically and through acquisition

People & Organization

- Organization structure and reporting lines
- Defined roles and responsibilities
- Authorization levels for executing transactions
- Staff training and development

There are 40 services across the six F&A business capabilities of a leading organization

Financial Accounting Fixed Asset General Ledger Revenue Inventory **Accounting Accounting Accounting Accounting Accounts Intangibles Financial Period** Intercompany Receivable **Accounting** Close **Processing Activity** Chart of **Tax Planning Accounts Payroll Payable Activity Accounts** and Reporting **Accounting**

Management Accounting				
Plan, Budget and Forecast				
Project Accounting				
Product Costing				









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Finance & Accounting Process Cycles: Foundation to Automation

Section 2:

Business Process Framework, Performance Measurement, And the Foundations of Process Automation

Sample Slides: 7

Total Slides in Instruction Facilitation Presentation: 60

APQC and their Process Classification Framework (PCF)

APQC:

The American Productivity Quality Center (APQC), a member-based proponent of business benchmarking, best practices, and knowledge management research, identifies **thirteen functional areas** in their standard process classification framework (PCF)

What is a process classification framework (PCF)?

• Index or catalog of the process activities that an organization is engaged in when they conduct their day-to-day operations

What is a PCF used for?

- 1. Build end-to-end process maps
- 2. Standardize processes
- 3. Document changes from technology implementations
- 4. Conduct benchmarking analysis

OTC process cycle sub-processes aligned to APQC process classification framework

Sales Order Management

Hierarchy ID	PCF Process or Activity Name
3.5.4.1	Accept and validate sales order
3.5.4.2	Collect and maintain account information
3.5.4.3	Determine availability of products or services
3.5.4.4	Determine fulfillment process
3.5.4.5	Enter orders into system
3.5.4.6	Identify / perform cross-sell / up-sell activity
3.5.4.7	Process back orders and updates
3.5.4.8	Handle sales order inquiries including post-order fulfillment transactions

Invoicing & Collection

Hierarchy ID	PCF Process or Activity Name
9.2.1	Process customer credit
9.2.2	Invoice customer
9.2.3	Process accounts receivable (AR)
9.2.4	Manage and process collections
9.2.5	Manage and process adjustments / deductions

Performance measurement key terms:

Key Performance Indicator (KPI)

What is a Key Performance Indicator (KPI)?

 A quantifiable performance metric of a business function, process or activity that is critical to the achievement of an organization's success

How does the organization measure success at the process level?

- Collecting metric data in four categories and comparing results over time
 - 1. Cost Effectiveness
 - 2. Staff Productivity
 - 3. Process Efficiency
 - 4. Cycle Time

KPI Metric Category: Cost Effectiveness

What performance do we look at?

Management of operating costs

Personnel

- Compensation:
- Salaries, wages, bonus
- Fringe Benefits:
- Healthcare, insurance, pension, stock purchase plans

Systems

- Computer hardware purchase and software license fee
- Maintenance fees for computer hardware and software
- Application and data cost related to process delivery
- IT employee salary & benefits, IT vendor service labor

Overhead

- Costs typically allocated based on size of process staff
- Facilities used by staff, and related utilities & maintenance
- Use of centralized corporate services
- Corporate HQ or Division HQ operating unit costs

Outsourced

- Third party supplier delivering services related to the process
- Recurring charges for baseline services
- Transaction volume for business surge or seasonal increase
- Permanent increase in service and vendor staffing levels

KPI Metric Category: Cycle Time

What performance do we look at?

 How quickly can the end-to-end process be completed

What can slow down the process cycle? No Global Process Owner **Incorrect or Missing Data** No process standards across **Lack of Visibility to Downstream Process inputs** business units **Data Inputs** require manual No minimum service intervention Planned stock levels levels cannot be validated Wrong product ID in No improvement against delivery an order will require

Order-to-Cash (OTC) Value Stream:

Customer Sales Order



Order Fulfillment



projects roadmap

Invoicing Customer



customer to be contacted

Revenue Accounting

promise date



Cash Collection & Payment Application

Cycle time KPI examples for Finance & Accounting

Concern

Delaying a
customer order
for longer than
a work week
can increase
rate of canceled
orders

Concern

4 days extra to bill a customer will increase company borrowing costs

Possible Solution

 Configure order management system for automated credit terms and approval based on customer risk rating derived from past order and payment history

Possible Solution

 Move orders for high volume in-stock products to customer portal with accelerated automated billing

Key Performance Indicator



What can Robotic Process Automation (RPA) and the associated Bots do?



Copy & Paste



Read & Write Databases



Open, Read & Send Email



Read & Write Excel Files



Save Email Attachments



Fill In Forms



Extract
Structured Data
From Documents



Scraping Data From web, pdf, image, & application

Other Basic Bot Jobs:

- Perform Calculations
- Move Files & Folders
- Collect Non-Financial Metric Data

Advanced Bot Jobs:

- Interact with on screen dashboard reports and send email notice of suggested actions
- Retrieve data from multiple sources and generate recurring internal reports
- Comparative analysis of product specifications and prices available online from competitors

Section 3:

Business Process Analysis Methods

Sample Slides: 7

Total Slides in Instruction Facilitation Presentation: 81

Six major elements and focus areas of a business process maturity model

1. Technology, Tools & Data

- Applications deployed to enable business processes
- Standardization of application and data architecture across enterprise
- Automation for critical process activities
- Data security and intrusion detection capabilities

2. Strategy

- Leadership engagement in providing clear policies, goals and directives
- Alignment of process goals to strategic objectives
- Process enhancement and continuous improvement support

3. Organizational Structure and People

- How and where critical business services are delivered
- Use of shared services and business process outsourcing
- Management structure across teams engaged in process
- Roles and responsibilities of team members

4. Performance Measurement

- KPIs used for cycle time, efficiency, cost effectiveness, productivity
- Actual individual or team performance against KPI goals
- Collection and communication of KPI results
- Periodic benchmarking against peers

5. Process

- Process governance and decision making
- Standardization across business units and regions
- Complexity of transaction procedures
- Utilization of standard system functionality and controls
- User level security for critical areas

6. Policy

- Policy ownership, maintenance and communication
- Standardization of policies across enterprise, business units and regions
- Service Level Agreements (SLA) for centralized business activities

Maturity model for Procure-to-Pay (P2P): Supplier Invoice Processing

Process & Policy elements combined

Model structure aligned to process cycle framework

	Basic	Developing	Established	Advanced	Leading
Process & Policy	Hard copies of supplier invoices are provided to requisitioners and cost center managers to markup with proper General Ledger coding to complete data entry in the accounts payable system	Electronic copies of supplier invoices are provided to requisitioners and cost center managers to markup with proper General Ledger coding to complete data entry in the accounts payable system	Electronic images of supplier invoices are loaded into an invoice review portal for each cost center manager and requisitioner to record the proper General Ledger coding for each invoice	relationships between key supplier invoice data elements to add additional data elements to complete the General Ledger	The accounts payable team and cost center managers review the General Ledger coding of supplier invoices suggested by the accounts payable system and make minimal adjustments to complete the coding
Process & Policy	The organization does not consistently enforce a 2-way or 3-way match of the supplier invoice	undergo a 2-way match of the	The majority of supplier invoices undergo a 3-way match of the invoice details to the purchase order and the goods receipt	processes the majority of supplier invoices through an automated 3-way match that requires manual intervention for exception handling	Accounts payable system is configured to eliminate need for manual intervention in the 3-way match results when immaterial differences arise. Automated workflow in place for routing the review of material differences.
Process & Policy	The organization requires manua signoff on payment approval for most supplier invoices	The organization requires manua signoff on payment approval for all supplier invoices	The organization requires electronic signoff on payment approval for all supplier invoices	department ensures compliance with the payment policy by initiating a payment approval	

Sources of leading practices

 Outside of obtaining a list of current leading practices from a management consulting firm the following organizations and guides can be reviewed by a Subject Matter Expert (SME) to construct a list:

Organizations

- American Productivity Quality Center (APQC)
- American Institute of Certified Public Accountants (AICPA)
- Association of Business Process Management Professionals (ABPMP)
- Gartner technological research and consulting firm

Technology

- ERP solution feature and design guides:
 - SAP, Oracle, workday, Sage Intacct, Infor, Microsoft Dynamics, Acumatica
- Process cycle solutions & service providers:

OTC P2P RTR

• Esker • tipalti • Blackline

• GETPAID • Bill • Trintech

• Billtrust • Coupa • TrustRadius

• HighRadius • SAP Ariba • floqast

Methods & Tools

- COSO Internal Control Integrated Framework
- Six Sigma quality control method and tools
- TOGAF design, plan, implement, and govern IT architecture method & tools
- Process Automation Tools:
- UiPath NICE
- Automation

- blueprism
- Pegasystems

Example of Leading Practices: Source-to-Pay (S2P) cycle

Receive Supplier Supplier Contract P-Card Reporting & Sourcing Category Expense Requisitioning **Purchasing** Goods & Invoice Governance Strategy Management Administration Analysis Management Management Management Services **Processing**

Practice	Description	Benefit
Aggregating demand into one global purchasing contract with a key supplier	Analysis of buying trends and opportunities for cost reduction to identify categories and/or materials that could provided savings with one global procurement contract	Drives actions to improve cost reduction across future purchasing decisions Improve supplier relationship by supporting key suppliers with achievement of performance goals
Formal and documented contract development process	Standard process supported by automated workflow for the development of supplier contract terms and pricing Documented contract lifecycle process Contract management enable through a Contract Lifecycle Management (CLM) system with access and role level security	Drives actions to improve cost reduction across future purchasing decisions Enables procurement team to aggregate demand for key materials/products across limited number of suppliers
Request For Proposal (RFP) process for putting purchasing requirements out for bid is enabled through dedicated platform	 Standard RFP process documented and criteria for required use established in policies and procurement training materials Robotic Process Automation (RPA) routes purchasing requests to specific buyers for materials/products requiring RFP enabled bids by suppliers 	Drives actions to improve cost reduction across future purchasing decisions Enables procurement team to aggregate demand for key materials/products across limited number of suppliers Reduced cost of onboarding and maintaining suppliers
Standard contract template utilized to facilitate negotiations and gaining agreement with key suppliers	Standard contract terms and conditions used to define key terms such as: Key supplier profit margin, payment terms, incoterms, supplier performance levels, penalties and price concessions for poor performance, etc.	Drives actions to improve cost reduction across future purchasing decisions Reduce exposure to contract terms that result in burdensome performance level for the business

FTE Cost and Productivity Performance Metrics

Headcount Cost

FTE Cost

- **▶** Compensation
 - Salary
 - Bonus
 - Benefits
- Outsourced Labor
- ► FTE Calculation
 - Allocation of Time Across Process
 Activities
 - Part-Time vs Full Time



Staff Productivity

Production Per FTE

- Output of Each Staff
 Member
- Number of Staff
 Engaged in Process
- Qualitative View of Staff
 - Hours of Training
 - Staff Tenure
 - Service Level Goals

Performance measures are designed to track the major process variables:

- 1. Resource Utilization
- 2. Cost
- 3. Productivity
- 4. Quantity
- 5. Quality
- 6. Timeliness
- 7. Cycle Time

With Headcount Cost and Staff Productivity we track 5 of the 7 process variables

Efficiency - Productivity Metrics - Order-to-Cash (OTC)

Measure A	Leading	Established	Basic	Company ABC
	25 th Percentile	Median	75 th Percentile	Performance
Number of invoices processed per FTE that performs the process "process accounts receivable (AR)"	85,000	44,444	19,387	?

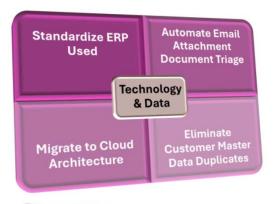
Measure B	Leading	Established	Basic	Company ABC
	25 th Percentile	Median	75 th Percentile	Performance
Total cost to perform the order-to-cash processes per \$1,000 revenue	\$1.18	\$1.89	\$2.83	?

Measure C	Leading	Established	Basic	Company ABC
	25 th Percentile	Median	75 th Percentile	Performance
Number of FTEs that perform the process "process accounts receivable (AR)" per \$1 billion revenue	2.52	4.00	6.08	?

What can the OTC process owner change to improve the earnings and cash drivers in a business?

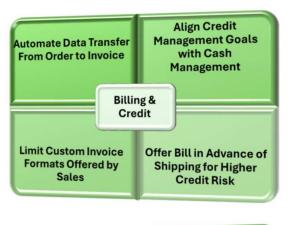
Process Owner Control:

Areas in YELLOW











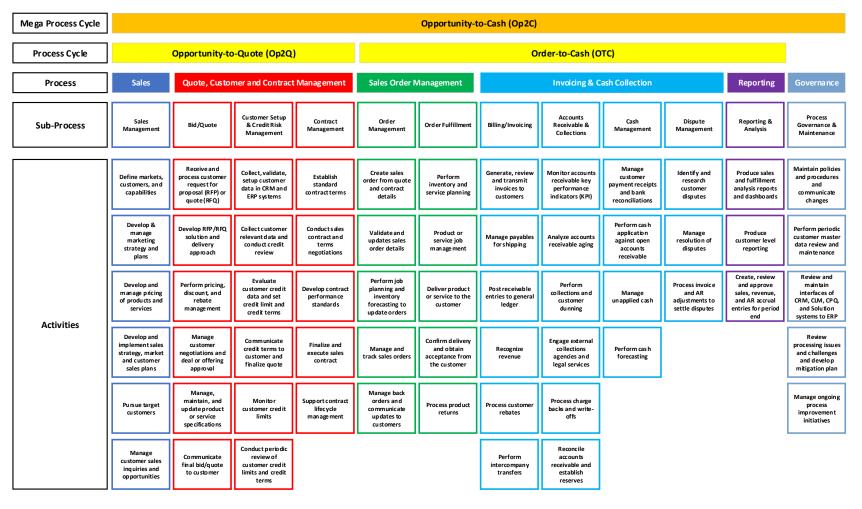
Section 4:

Order-to-Cash (OTC): Leading Practice View of Process Cycle Structure and Service Delivery

Sample Slides: 7

Total Slides in Instruction Facilitation Presentation: 47

Order-to-Cash (OTC) Process Framework



Please have your OTC placemat of graphics as a ready reference as we examine this process cycle.

The placemat is an 11" x 17" double sided document.

OTC Process:

Sales Order Management

Sub-Process:

Order Management

- 1. Examine the Sales Quote with product, price, quantity, sales terms, and initial promise date agreed with the customer
 - Create a Sales Order in the Order Management System
- The order management system validates price and product details and prompts Order Management team to act if there are inconsistencies between the order and the ERP product master data or customer master data
 - Who should correct the inconsistencies? Sales Team or Order Management Team?

This slide is used to gain a deeper understanding of each activity box in the process cycle framework

- 3. Consult the product production schedule or attend production planning meetings to gather data to validate the delivery date promised to the customer
 - Should activity 3 be automated? Why?
- 4. Sales Orders that cannot be filled in a reasonable time are placed on a backorder monitoring status so appropriate communication can be sent to customer
 - What might be missed when the back order is finally fulfilled and shipped to the customer?

No Invoice Created

OTC Process:

Invoicing & Cash Collection

Sub-Process:

Billing / Invoicing

- 1. Data from the sales order along with information from the product shipping confirmation is used to create an invoice that is sent to the customer
 - The ERP system or the standalone billing system is configured to allow a specific data element or event to trigger the creation of an invoice
- 2. Additional data that is added to the invoice that could impact the total invoice amount includes the following:
 - Sales & use tax charged to customer
 - Value added tax
 - Freight charges for shipping products to customer

This slide is used to gain a deeper understanding of each activity box in the process cycle framework

- 3. Revenue recognition can take place when two things have taken place:
 - a) Product is shipped or made available for the customer to pickup
 - b) Organization has satisfied local GAAP requirements for revenue recognition
 - Billing does NOT have to take place to recognize revenue
- 4. Intercompany billing or transfers occurs when products or services may be shipped on behalf of or directly to a related company
 - Intercompany transfers of products across international borders are typically governed by an organization's Transfer Pricing policy that is updated on an annual basis to ensure compliance with local country guidelines

Three levers of change to strike the right balance between the control and performance of business processes

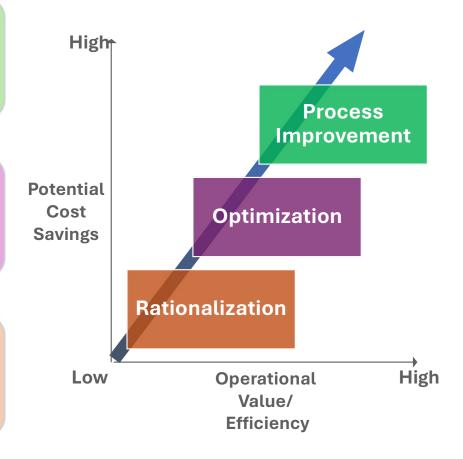
Process Improvement Modifying and re-designing a process and the underlying control structure to drive operational efficiency and effectiveness

Optimization

 Implementing more efficient controls through standardization and automation

Rationalization

 Removing controls that are not significant or are duplicative



Internal Controls: OTC

Order Management

Payment terms properly assigned to customer

User access controls to change price list or override prices in order

Order Fulfillment

3 Shipping information in customer master data reviewed

4
Product picking transaction updates inventory balances

Billing / Invoicing

5
System
automatically
generates billing
data for invoice

6
Customer
discounts
approved
through
workflow tool

Accounts Receivable & Collections

7
Delinquent
customer AR
balances are
reviewed
periodically

8
Bank account reconciliations to General Ledger performed

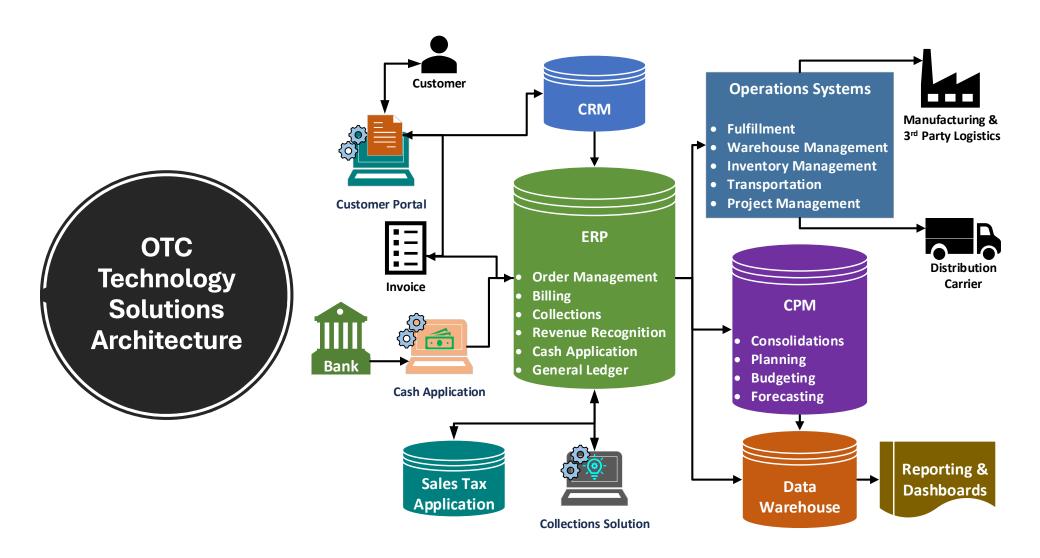
Cash Management

System
automatically
updates
customer
account
balances when
cash payments
applied to
invoice

Dispute Management

10
Sales returns are regularly reviewed and approved by management

What are we trying to find looking at returns?



OTC Technology Solutions

Technology Solution:	Salesforce Sales	Cloud
Focus Area of Solution:	CRM	
Capabilities:		
 Manage and track sales campaigns across multiple sales channels 		 Provides customer master data repository and integrates with ERP customer master data
 Import documents such as purchase orders across multiple document types 		Supports sales forecasting tasks
 Integration with an organization's email system to maintain communication details with customers 		 Integrates with ERP systems to share product, pricing, and credit management transactional data
 Share files with customers such as sales quotes and draft sales contracts 		 Solution deployed as Software as a Service (SaaS) solution and not available as and on premises application

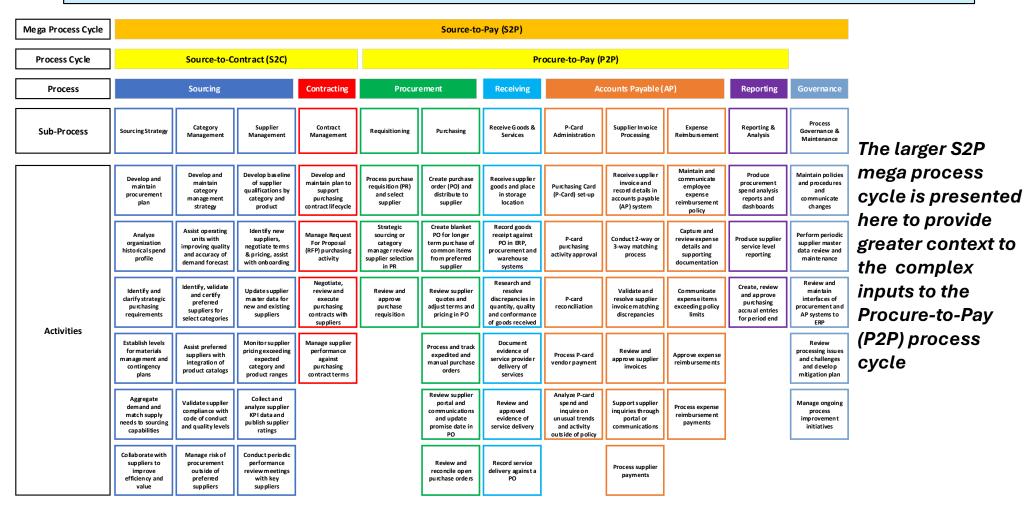
Section 5:

Procure-to-Pay (P2P): Leading Practice View of Process Cycle Structure and Service Delivery

Sample Slides: 7

Total Slides in Instruction Facilitation Presentation: 54

Procure-to-Pay (P2P) Process Framework



P2P Process:

Procurement

Sub-Process:

Requisitioning

- Procurement most often begins with someone in the organization identifying a need to purchase goods or services and completing a Purchase Requisition (PR) document
 - Can a requisitioner contact a vendor directly and order materials without following the formal requisition process? What is the impact of that?
- 2. The PR is routed through a rules-based workflow tool to either an approver for the requisitioner's cost center or to a buyer in the procurement team for further action

This slide is used to gain a deeper understanding of each activity box in the process cycle framework

- 3. Strategic procurement typically involves the purchase of materials and services that are identified as the most critical to produce core products
 - a) Not all products would qualify as core
 - Strategic related materials are identified in the ERP and procurement systems master data to allow for the application of business rules for processing
 - c) A short list of active strategic suppliers are maintained to ensure the material demand is aggregated to those suppliers that can deliver required quality, delivery time, and most often re-negotiated pricing for all orders
- 4. Review and approval of PRs typically follows the organization's Delegation of Authority policy

New Vendor Addition Fraud: How does it happen?

Outside Unrelated Party				
How does the fraud happen?	What can AP Team do to prevent or detect fraud?			
 Email sent to AP team mailbox with new vendor data sheet completed and asking for new vendor to be created 	Never send response by clicking on links in email or simply creating a "reply" from inside the email			
Email sender masks actual email address to look like it is sent from internal employee	Verify new vendor details with internal employee and credit rating agencies No g receip be created.			
Internal Employee or Contractor way mat				
How does the fraud happen?	What can AP Team do to prevent or detect fraud?			
 Internal resource wants to get personally paid for fictitious invoices that they will send after establishing 	 Insist on submission of organization's purchase order with purchase requisitioner name before new 			

processes they have already observed

• Internal resource typically sets up working email

addresses to mask identity and exploits weaknesses in

the "new vendor" relationship

vendor record is activated

· Contact internal purchase requisitioner, and

buyer directly to verify "new" vendor details

internal purchasing team's category manager or

P2P Leading Practices:

Supplier Invoice Processing

Practice	Description
Supplier invoice approvals documented and maintained in secure database or system	Workflow enabled supplier invoice approvals and adjustments maintained in a secure database, ERP or procurement system
Supplier payment scheduling supports overall cash management plan of business	ERP or procurement system automatically schedules approved supplier invoices based on payment due dates and configured cash management rules
Suspension of supplier payments to facilitate resolution of supplier performance issues	 AP and Sourcing Team collaborate on suspension of payments to suppliers with significant performance and quality issues ERP system has capability to allow manual application of payment block on suppliers

This slide provides insights on what can be done with well designed sub-process and support systems for each process cycle. These details are what one can expect from a Subject Matter Expert (SME).

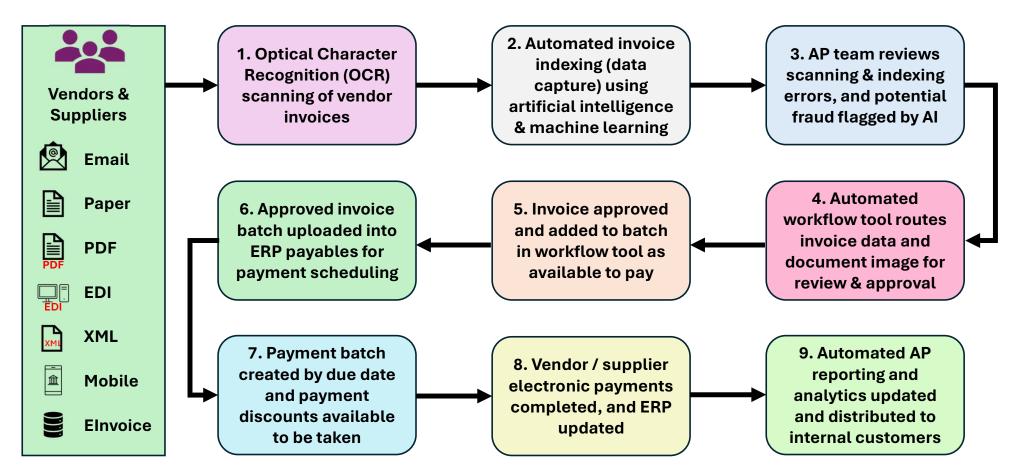
P2P Leading Practices:

Expense Reimbursement

Practice	Description
Specialized system for recording business expense reports and storage of supporting expense invoice images	 Expense report management system used for capturing employee reimbursable expenses Expense system integrated with Accounts Payable system
Direct import of expense items from corporate credit card into the expense report management system	 Employees can import individual charges from corporate credit card into expense report management system to populate new expense report Policy to require import of all airfare and lodging charges directly into expense report management system from the corporate credit card systems

This slide provides insights on what can be done with well designed sub-process and support systems for each process cycle. These details are what one can expect from a Subject Matter Expert (SME).

The automated P2P vendor invoice flow



Note: We have seen this diagram before when we discussed cycle time performance in an earlier class

P2P Technology Solutions

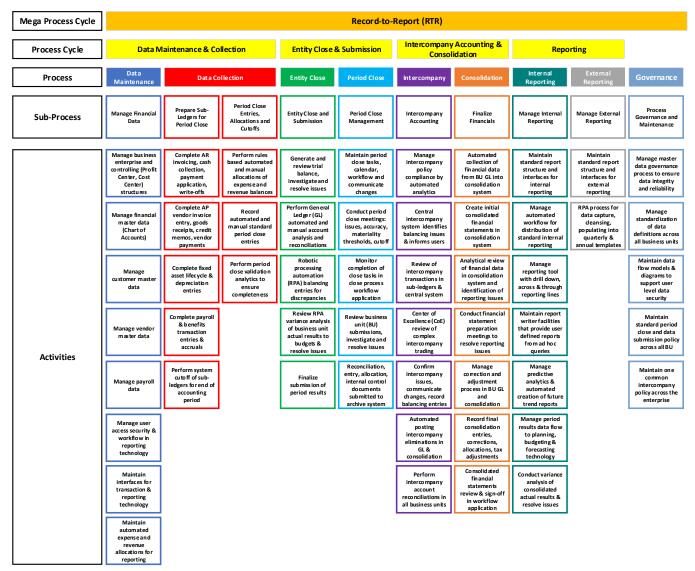
Technology Solution:	bill	
Focus Area of Solution:	Accounts Payable Aut	omation
Capabilities:		
 Electronic invoice data entry through scanning vendor invoice images uploaded manually and received in emails 		Pre-built standard interfaces for leading ERP systems
Automated approval workflows		 Access to millions of vendors over the bill network and more payment options—from ACH to credit card, check, and international wire transfer—user has more flexibility and control over payments
 Provides AP team with access to SaaS application in Cloud 		
 Outsourcing services provided with bill tools and systems 		

Section 6:

Record-to-Report (RTR): Leading Practice View of Process Cycle Structure and Service Delivery

Sample Slides: 7

Total Slides in Instruction Facilitation Presentation: 55



Record-to-Report (RTR) Process Framework

RTR Process:

Data Maintenance

Sub-Process:

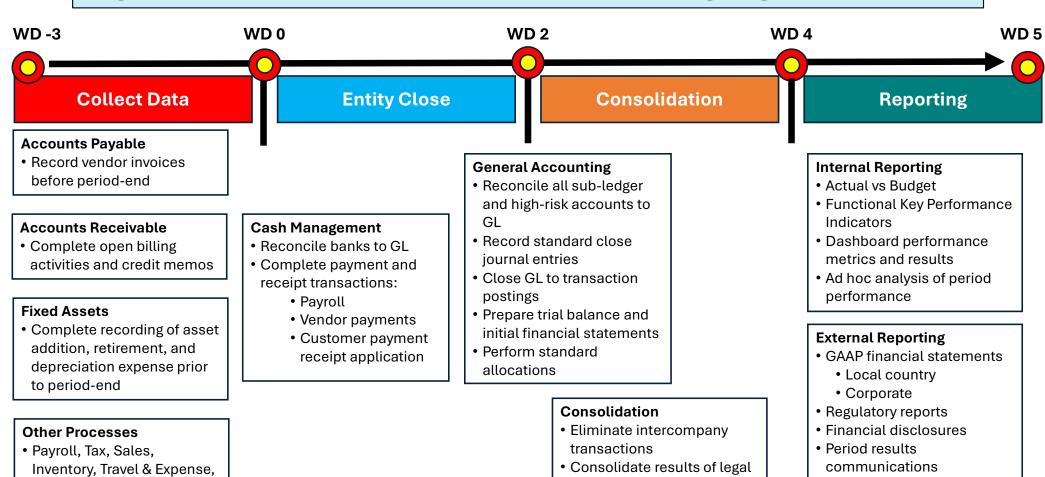
Manage Financial Data

- Legal entity structure and intercompany reporting relationships can change year to year to take advantage of favorable tax treatments in various countries
 - ERP and consolidation system features accommodate multiple sets of books in US GAAP and IFRS standards as well as various entity reporting structures
- 2. Chart of Accounts (COA) is standardized across all legal entities, general ledger accounts and COA segment changes are centrally controlled by reporting master data owner
- 3. Master data is maintained in one central system and shared with other critical systems through API interfaces to ensure standardization of data elements

- 4. IT department ensures adherence to data governance policies by using Master Data Management (MDM) solutions such as:
 - PiLog, Informatica, TIBCO, Semarchy xDM
- Profit center and cost center structures are optimized to reduce the need for complex and numerous period end allocations of revenue and expenses
- 6. ERP business rules, or robotic process automation (RPA) is used to record adjusting revenue and expense entries at the time an intercompany transaction takes place to implement a commissionaire tax model when one legal entity completes sales on behalf of another related legal entity across multiple countries

This slide is used to gain a deeper understanding of each activity box in the process cycle framework

High-level period close timeline for leading organization



etc.

entities and operating units

Control Environment

- Commitment to integrity, ethical values, and competence of the entity's people
- Management exercises appropriate oversight and enforces accountability
- Maintain a formal structure of authority and responsibilities

Risk Assessment

- Identification and analysis of business risks and significant changes
- Assessment of fraud risk

Control Activities

- Management selects & develops control activities over business processes and the technology environment to mitigate risks
- Establish controls through policies and procedures

Information & Communication

- Use internal and external information to carry out control responsibilities
- Internal communication that control responsibility must be taken seriously, external communication that is required and expected

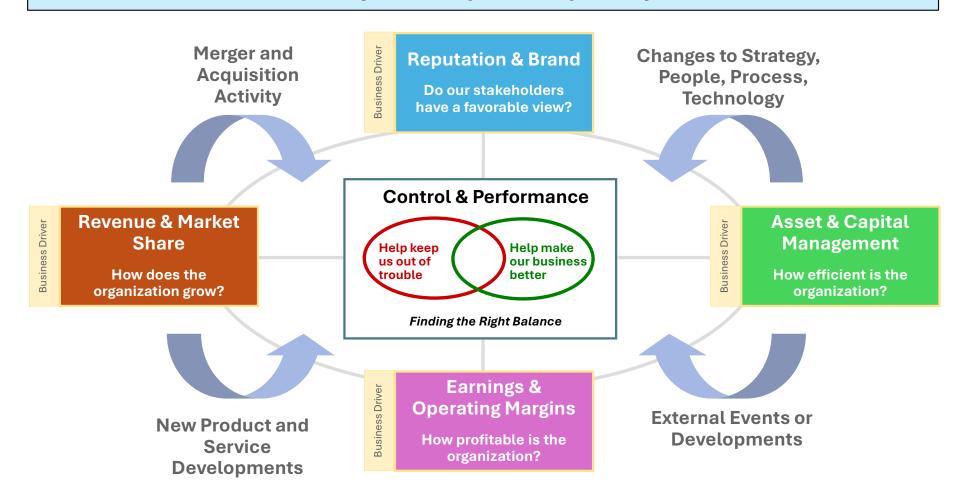
Monitoring Activities

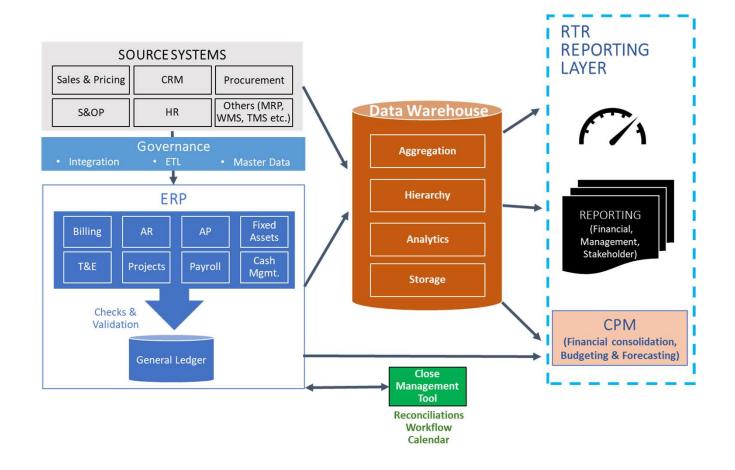
- Ongoing evaluations of the internal control components and business processes
- Formal evaluation of findings & communication of deficiencies

COSO Components of Internal Control



Internal controls can be designed to detect most reporting issues, but that level of assurance can be too costly of an impact of 4 primary business drivers





RTR Technology Solutions Architecture

RTR Technology Solutions

Technology Solution:	OneStream
Focus Area of Solution:	Period Close Management, Account Reconciliation, Consolidation, Financial Reporting

Capabilities:

- Period close workflows and task status in dashboards
- Execute automated GL account reconciliations and store audit ready documentation
- Drill down from financial statement lines into account reconciliations

- The solution is built for consolidation and reporting so there is no need to separately load data just to complete account reconciliations
- Pre-built interfaces to major ERP systems to support seamless financial report creation
- Centralized consolidation tool
- Centralized financial reporting tool

Background on course content providers

About APQC:

APQC helps organizations work smarter, faster, and with greater confidence. It is the world's
foremost authority in benchmarking, best practices, process and performance
improvement, and knowledge management. APQC's unique structure as a member-based
nonprofit makes it a differentiator in the marketplace. APQC partners with more than 500
member organizations worldwide in all industries. With more than 40 years of experience,
APQC remains the world's leader in transforming organizations.

About Peter Fazio:

 Peter Fazio is a finance and accounting professional with over 20 years experience as an SVP of Finance, Controller, External Auditor and Management Consultant. He has led several finance transformation projects at large global corporations across Asia, Europe, and North America. He is also an adjunct professor of accounting at a leading university in New York.