PETROLEUM UPSTREAM PROCESS CLASSIFICATION FRAMEWORKSM

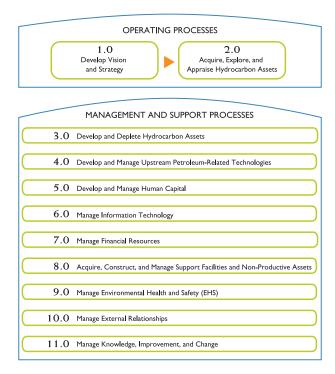
THE PETROLEUM UPSTREAM PROCESS CLASSIFICATION FRAMEWORK

Based on the renowned Process Classification FrameworkSM (PCF), a taxonomy of cross-functional business processes intended to allow objective comparison of performance within and among organizations, and the support of IBM, this industry PCF enables more industry applicable content by outlining and defining processes and activities specific to the Petroleum Upstream industry. This allows organizations to choose the framework most relevant to the specific process improvement need, whether it be benchmarking within or across industries, business process management/re-engineering, or content management. The cross-industry PCF and industry PCFs are available on the APQC website at no charge. IBM provided the subject matter expertise and intellectual property to create the industry specific business process classification frameworks, as part of the IBM's continuing leadership in the promotion of open standards to help organizations evaluate and measure business processes at an industry level.

THE FRAMEWORK FOR PROCESS IMPROVEMENT

Experience shows that the potential of benchmarking to drive dramatic improvement lies squarely in making out-of-the-box comparisons and searching for insights not typically found within intra-industry paradigms. To enable this beneficial benchmarking, the APQC Process Classification FrameworkSM (PCF) serves as a high-level, industry-neutral enterprise process model that allows organizations to see their business processes from a cross-industry viewpoint.

The cross-industry framework has experienced more than 15 years of creative use by thousands of organizations worldwide. The PCF provides the foundation for APQC's Open Standards BenchmarkingSM database of performance metrics, the largest of its kind in the world. The PCF will continue to be enhanced as the database further develops definitions, processes, and measures. The PCF, associated measures, and definitions are available for download at no charge at www.apqc.org/osb. An online benchmarking portal for individual assessments is also available.



HISTORY

The cross-industry Process Classification Framework was originally envisioned as a taxonomy of business processes and a common language through which APQC member organizations could benchmark their processes. The initial design involved APQC and more than 80 organizations with strong interest in advancing the use of benchmarking in the United States and worldwide. Since its inception in 1992, the PCF has seen updates to most of its content. These updates keep the framework current with the ways that organizations do business around the world. In 2008, APQC and IBM worked together to enhance the cross-industry PCF and to develop a number of industry-specific process classification frameworks.





PROCESS CLASSIFICATION FRAMEWORK

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LOOKING FORWARD

The cross industry and industry Process Classification Frameworks are evolving models, which APQC will continue to enhance and improve regularly. Thus, APQC encourages comments, suggestions, and more importantly, the sharing of insights from having applied the PCF within your organization. Share your suggestions and experiences with the PCF by e-mailing pcf_feedback@apqc.org.

ABOUT APOC

An internationally recognized resource for process and performance improvement, APQC helps organizations adapt to rapidly changing environments, build new and better ways to work, and succeed in a competitive marketplace. With a focus on productivity, knowledge management, benchmarking, and quality improvement initiatives, APQC works with its member organizations to identify best practices; discover effective methods of improvement; broadly disseminate findings; and connect individuals with one another and the knowledge, training, and tools they need to succeed. Founded in 1977, APQC is a member-based nonprofit serving organizations around the world in all sectors of business, education, and government. APQC is also a proud winner of the 2003 and 2004 North American Most Admired Knowledge Enterprises (MAKE) awards. This award is based on a study by Teleos, a European based research firm, and the KNOW network.

The PCF is written in United States English language format.

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ABOUT IBM

IBM works with its clients to develop new business designs and technical architectures that allow their businesses the flexibility required to compete in a global business landscape. The business is also adjusting its footprint toward emerging geographies, tapping into IBM's double-digit growth, providing the technology infrastructure they need, and taking advantage of the talent pools provided to better service IBM's clients. IBM's major operations comprise a Global Technology Services segment; a Global Business Services segment; a Systems and Technology segment; a Software segment; and a Global Financing segment. For more information, visit: www.ibm.com/soa

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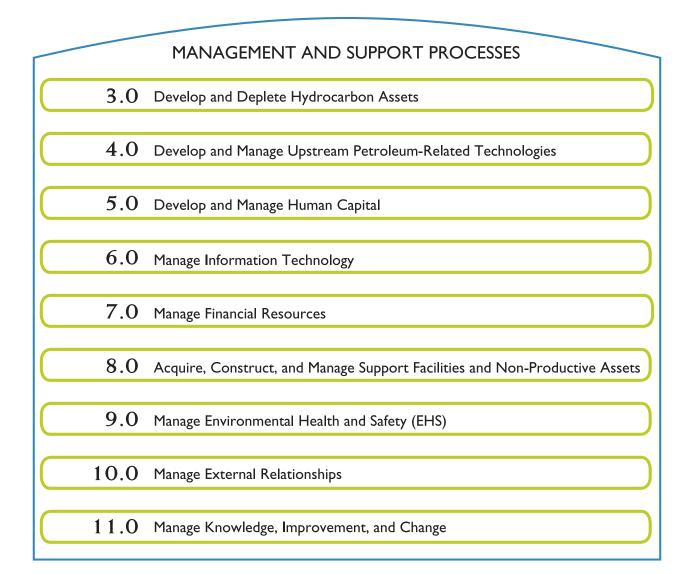
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UNDERSTANDING THE NUMBERING SCHEME

Beginning with Version 5.0.0, the PCF uses a numbering scheme that differs from previous versions. The cross-industry framework and the industry-specific frameworks collectively form a library of process





elements used in APQC's Open Standards Benchmarking database. Each process element is referred to by two numbers: a number used to locate the content within that particular framework (in the format 1.2.3.4) and a serial number used to uniquely identify the process element across all of the various Open Standards Benchmarking frameworks (beginning with 10000).

For example, the process element "1.2 Develop business strategy (10015)" is uniquely identified by the serial number "10015" and the hierarchical reference number "1.2." In industry-specific PCFs, any process element identified as "10015" will have the same scope and definition as a process element of the same number elsewhere, but may be labeled differently.

INTERPRETING THE PCF

Category: The highest level within the PCF is indicated by whole numbers (e.g., 8.0 and 9.0)

Process Group: Items with one decimal numbering (e.g., 8.1 and 9.1) are considered a process group.

Process: Items with two decimal numberings (e.g., 8.1.1 and 9.1.2) are considered processes.

Activity: Items with three decimal numbering (e.g. 8.3.1.1 and 9.1.1.1) are considered activities within a process.

The Petroleum Upstream PCF is based on the cross-industry PCF Version 5.0.0 released in April 2008.

1.0 Develop Vision and Strategy (10002)

1.1 Define the business concept and long-term vision (10014)

- 1.1.1 Assess the external environment (10017)
 - 1.1.1.1 Analyze and evaluate competition (10021)
 - 1.1.1.2 Identify economic trends (10022)
 - 1.1.1.3 Identify political and regulatory issues (10023)
 - 1.1.1.4 Assess new technology innovations (10024)
 - 1.1.1.5 Analyze demographics (10025)
 - 1.1.1.6 Identify social and cultural trends (10026)
 - 1.1.1.7 Identify ecological concerns (10027)
- 1.1.2 Survey market and determine customer needs and wants (10018)
 - 1.1.2.1 Conduct qualitative/quantitative assessments (10028)
 - 1.1.2.2 Assess customer needs (10029)
- 1.1.3 Perform internal analysis (10019)
 - 1.1.3.1 Analyze organizational characteristics (10030)
 - 1.1.3.2 Create baselines for current processes (10031)
 - 1.1.3.3 Analyze systems and technology (10032)
 - 1.1.3.4 Analyze financial positions (10033)
 - 1.1.3.5 Identify enterprise core competencies (10034)
- 1.1.4 Establish strategic vision (10020)
 - 1.1.4.1 Align stakeholders around strategic vision (10035)
 - 1.1.4.2 Communicate strategic vision to stakeholders (10036)

1.2 Develop business strategy (10015)

- 1.2.1 Develop overall mission statement (10037)
 - 1.2.1.1 Define current business (10044)
 - 1.2.1.2 Formulate mission (10045)
 - 1.2.1.3 Communicate mission (10046)
- 1.2.2 Evaluate strategic options to achieve the objectives (10038)
 - 1.2.2.1 Define strategic options (10047)
 - 1.2.2.2 Assess and analyze impact of each option (10048)

- 1.2.3 Finalize long-term business strategy (10039)
- 1.2.4 Coordinate and align functional and process strategies (10040)
- 1.2.5 Create organizational design (structure, governance, reporting, etc.) (10041)
 - 1.2.5.1 Evaluate breadth and depth of organizational structure (10049)
 - 1.2.5.2 Perform job-specific roles mapping and value-add analyses (10050)
 - 1.2.5.3 Clarify role activities and assess hand-offs (10051)
 - 1.2.5.4 Perform organization redesign workshops (10052)
 - 1.2.5.5 Design the relationships between organizational units (10053)
 - 1.2.5.6 Develop role and activity analysis for key processes (10054)
 - 1.2.5.7 Assess organizational implication of feasible alternatives (10055)
 - 1.2.5.8 Migrate to new organization (10056)
- 1.2.6 Develop and set organizational goals (10042)
- 1.2.7 Formulate business unit strategies (10043)

1.3 Manage strategic initiatives (10016)

- 1.3.1 Develop strategic initiatives (10057)
- 1.3.2 Evaluate strategic initiatives (10058)
- 1.3.3 Select strategic initiatives (10059)
- 1.3.4 Establish high-level measures (10060)

2.0 Acquire, Explore, and Appraise Hydrocarbon Assets (14200)

2.1 Acquire asset (access) (12984)

- 2.1.1 Strategize acquisition (12985)
 - 2.1.1.1 Define key value drivers (12986)
- 2.1.2 Identify opportunities (12987)
 - 2.1.2.1 Gather/create opportunities (12988)
 - 2.1.2.2 Screen and prioritize opportunities (12989)
 - 2.1.2.3 Develop key alignment points (12990)
 - 2.1.2.4 Engage key decision makers (12991)
 - 2.1.2.5 Select opportunities to evaluate (12992)
- 2.1.3 Evaluate opportunities (12993)
 - 2.1.3.1 Form team and dedicate resources (12994)
 - 2.1.3.2 Conduct technical analysis (12995)
 - 2.1.3.3 Identify sources of value and develop business case (12996)
 - 2.1.3.4 Determine value and decide whether to pursue (12997)
- 2.1.4 Pursue opportunities (12998)
 - 2.1.4.1 Confirm potential value of target (12999)
 - 2.1.4.2 Develop transition/ integration plan (13000)
 - 2.1.4.3 Establish price and negotiation strategy (13001)
 - 2.1.4.4 Structure deal, launch offer, close contracts (13002)
 - 2.1.4.5 Finalize agreement and prepare for integration (13003)
- 2.1.5 Handover successful opportunities to exploration, development or production (13004)

2.2 **Explore asset (13005)**

- 2.2.1 Develop exploration strategy (13006)
- 2.2.2 Acquire seismic data (13007)
- 2.2.3 Process seismic data (13008)
- 2.2.4 Develop seismic models (13009)
- 2.2.5 Perform basin analysis (13010)
- 2.2.6 Develop prospect portfolio development (13011)
 - 2.2.6.1 Perform prospect identification (13012)
 - 2.2.6.2 Perform prospect definition (13013)
 - 2.2.6.3 Create ready-to-drill inventory (13014)
- 2.2.7 Drill exploration wells (13015)
- 2.2.8 Evaluate exploration wells (13016)
- 2.2.9 Submit regulatory reports (13017)
- 2.2.10 Handover successful exploration wells for appraisal (13018)

2.3 Appraise asset (13019)

2.3.1 Gather data (13020)

- 2.3.1.1 Organize asset data (13021)
- 2.3.1.2 Acquire/process seismic data (13022)
- 2.3.1.3 Acquire/process well log data (13023)
- 2.3.1.4 Gather reservoir data (13024)
- 2.3.1.5 Gather geochemical data (13025)
- 2.3.1.6 Estimate data uncertainty (13026)

2.3.2 Develop asset model (13027)

- 2.3.2.1 Build surface geological model (13028)
- 2.3.2.2 Build seismic model (13029)
- 2.3.2.3 Correlate well data (13030)
- 2.3.2.4 Integrate seismic and well model (13031)
- 2.3.2.5 Build reservoir model (13032)
- 2.3.2.6 Characterize reservoir (13033)
- 2.3.2.7 Estimate hydrocarbon potential (13034)

2.3.3 Develop scenarios (13035)

- 2.3.3.1 Build sub-surface scenarios (13036)
- 2.3.3.2 Build facility scenarios (13037)
- 2.3.3.3 Build operating scenarios (13038)
- 2.3.3.4 Develop EHS (Environmental Health & Safety) definitions (13039)

2.3.4 Evaluate economic viability (13040)

- 2.3.4.1 Evaluate well costs (13041)
- 2.3.4.2 Evaluate facility and pipeline costs (13042)
- 2.3.4.3 Perform economic analysis (13043)
- 2.3.4.4 Perform uncertainty analysis (13044)

2.3.5 Propose development plan (13045)

- 2.3.5.1 Develop proposal (13046)
- 2.3.5.2 Compile plan (13047)
- 2.3.5.3 Submit regulatory report (13048)
- 2.3.6 Handover appraisal results to development (13049)

3.0 Develop and Deplete Hydrocarbon Assets (14201)

3.1 **Develop asset (13050)**

- 3.1.1 Develop facility (13051)
 - 3.1.1.1 Prepare conceptual design (13052)
 - 3.1.1.2 Prepare front-end engineering design (13060)
 - 3.1.1.3 Prepare detailed design (13068)
 - 3.1.1.4 Construct and precommission (13075)
 - 3.1.1.5 Commission and prepare handover (13079)

3.1.2 Develop subsurface (13083)

- 3.1.2.1 Develop preliminary well design (13084)
- 3.1.2.2 Develop detailed well design (13085)
- 3.1.2.3 Develop well program (13086)
- 3.1.2.4 Construct well (13087)
- 3.1.2.5 Modify well (13093)
- 3.1.3 Submit regulatory reports (13095)
- 3.1.4 Handover to Production (13096)

3.2 **Produce asset (13097)**

- 3.2.1 Establish asset depletion strategy (13098)
 - 3.2.1.1 Define long-term "life of field" strategy (13099)
 - 3.2.1.2 Define term "operational" plan (13103)

3.2.2 Operate asset (13107)

- 3.2.2.1 Define operation architecture (13108)
- 3.2.2.2 Define production planning (13109)
- 3.2.2.3 Execute production (13110)
- 3.2.2.4 Conduct surveillance (13111)
- 3.2.2.5 Optimize production (13112)
- 3.2.2.6 Perform maintenance (13113)
- 3.2.2.7 Manage activities (13121)
- 3.2.3 Submit regulatory reports (13126)

3.3 Exit opportunity (13127)

- 3.3.1 Develop exit strategy (13128)
- 3.3.2 Perform sale or trade (13129)
- 3.3.3 Perform abandonment (13130)
 - 3.3.3.1 Demolish and secure (13131)
 - 3.3.3.2 Restore site (13132)
 - 3.3.3.3 Prepare handover (13133)
- 3.3.4 Submit regulatory reports (14202)

4.0 Develop and Manage Upstream Petroleum-Related Technologies (10003)

4.1 Manage upstream petroleum-related technology portfolio (10061)

- 4.1.1 Evaluate performance of existing upstream petroleum-related technologies against market opportunities (10063)
- 4.1.2 Define upstream petroleum-related technology development requirements (10064)
 - 4.1.2.1 Identify potential improvements to existing upstream petroleum-related technologies (10068)
 - 4.1.2.2 Identify potential new upstream petroleumrelated technologies (10069)

4.1.3 Perform discovery research (10065)

- 4.1.3.1 Identify new upstream petroleum-related technologies (10070)
- 4.1.3.2 Develop new upstream petroleum-related technologies (10071)
- 4.1.3.3 Assess feasibility of integrating new leading upstream petroleum-related technologies into upstream petroleum-related technology concepts (10072)

4.1.4 Confirm alignment of upstream petroleum-related technology concepts with business strategy (10066)

- 4.1.4.1 Plan and develop cost and quality targets (10073)
- 4.1.4.2 Prioritize and select new upstream petroleumrelated technology concepts (10074)
- 4.1.4.3 Specify development timing targets (10075)
- 4.1.4.4 Plan for upstream petroleum-related technology offering modifications (10076)

4.1.5 Manage upstream petroleum-related technology life cycle (10067)

- 4.1.5.1 Introduce new upstream petroleum-related technologies (10077)
- 4.1.5.2 Retire outdated upstream petroleum-related technologies (10078)
- 4.1.5.3 Identify and refine performance indicators (10079)

4.2 Develop new upstream petroleum-related technologies (10062)

4.2.1 Design, build, and evaluate upstream petroleumrelated technologies (10080)

- 4.2.1.1 Assign resources to upstream petroleumrelated technology project (10083)
- 4.2.1.2 Prepare high-level business case and technical assessment (10084)
- 4.2.1.3 Develop upstream petroleum-related technology design specifications (10085)
- 4.2.1.4 Document design specifications (10086)
- 4.2.1.5 Conduct mandatory and elective external reviews (10087)
- 4.2.1.6 Build prototypes (10088)
- 4.2.1.7 Eliminate quality and reliability problems (10089)
- 4.2.1.8 Conduct in-house product/service testing and evaluate feasibility (10090)
- 4.2.1.9 Identify design/development performance indicators (10091)
- 4.2.1.10 Collaborate on design with suppliers and contract manufacturers (10092)

4.2.2		rket for new or revised upstream petroleum- technologies (10081) Prepare detailed market study (10093)	4.2.3	Prepare 4.2.3.1	for production (10082) Develop and test prototype production and/or service delivery process (10098)
	4.2.2.2	Conduct customer tests and interviews (10094)		4.2.3.2	Design and obtain necessary materials and
	4.2.2.3	Finalize product/service characteristics and business cases (10095)		4.2.3.3	equipment (10099) Install and validate production process or
	4.2.2.4	Finalize technical requirements (10096)			methodology (10100)
	4.2.2.5	Identify requirements for changes to manufacturing/delivery processes (10097)			

5.0 Develop and Manage Human Capital (10007)

5.1	1 Develop and manage human resources (HR) planning, policies, and strategies (10409)					5.2.1.4 5.2.1.5	Post requisition (10448) Manage internal/external job posting Web
	5.1.1		human resources strategy (10415) Identify strategic HR needs (10418) Define HR and business function roles and accountability (10419)			5.2.1.6 5.2.1.7 5.2.1.8	sites (10449) Change/update requisition (10450) Notify hiring manager (10451) Manage requisition date (10452)
	5.1.2	5.1.1.3 5.1.1.4 5.1.1.5	Determine HR costs (10420) Establish HR measures (10421) Communicate HR strategies (10422)		5.2.2		/source candidates (10440) Determine recruitment methods (10453) Perform recruiting activities/events (10454) Manage recruitment vendors (10455)
	J.1.Z	(10416) 5.1.2.1	and implement human resources plans Gather skill requirements according to corporate strategy and market environment		5.2.3		and select candidates (10441) Identify and deploy candidate selection tools (10456)
		5.1.2.2	(10423) Plan employee resourcing requirements per unit/organization (10424)			5.2.3.2 5.2.3.3 5.2.3.4	Interview candidates (10457) Test candidates (10458) Select and reject candidates (10459)
		5.1.2.3 5.1.2.4 5.1.2.5 5.1.2.6	Develop compensation plan (10425) Develop succession plan (10426) Develop employee diversity plan (10427) Develop other HR programs (10428)		5.2.4	5.2.4.15.2.4.2	e pre-placement verification (10442) Complete candidate background information (10460) Conduct pre-employment screening (10461)
		5.1.2.7 5.1.2.8 5.1.2.9 5.1.2.10	Develop HR policies (10429) Administer HR policies (10430) Plan employee benefits (10431) Develop strategy for HR systems/technologies/ tools (10432)		5.2.5	5.2.5.1 5.2.5.2	Recommend/not recommend candidate (10462) e new hire/re-hire (10443) Draw up and make offer (10463) Negotiate offer (10464)
	5.1.3	5.1.2.11 Monitor 5.1.3.1 5.1.3.2	Develop work-force strategy models (10433) and update plans (10417) Measure realization of objectives (10434) Measure contribution to business strategy (10435)		5.2.6	5.2.5.3 Track c 5.2.6.1 5.2.6.2 5.2.6.3	Hire candidate (10465) andidates (10444) Create applicant record (10466) Manage/track applicant data (10467) Archive and retain records of non-hires (10468)
		5.1.3.35.1.3.4	Communicate plans and provide updates to stakeholders (10436) Determine value added from HR function (10437)	5.3	Devel 5.3.1	-	ounsel employees (10411) e employee orientation and deployment Create/maintain employee on-boarding
5.2	Recru 5.2.1		Review and revise HR plans (10438) e, and select employees (10410) and develop employee requisitions (10439) Align staffing plan to work-force plan and			5.3.1.2 5.3.1.3 5.3.1.4	program (10474) Introduce new employees to managers (10475) Introduce workplace (10476) Evaluate the effectiveness of the employee on-boarding program (11243)
		5.2.1.2 5.2.1.3	business unit strategies/resource needs (10445) Develop and open job requisition (10446) Develop job description (10447)		5.3.2	Manage 5.3.2.1 5.3.2.2	e employee performance (10470) Define performance objectives (10479) Review, appraise, and manage employee performance (10480)

		5.3.2.3	Evaluate and review performance program (10481)		5.4.3	5.4.3.1 Deliver programs to support work/life balance
	5.3.3	Manage 5.3.3.1 5.3.3.2 5.3.3.3	employee relations (10471) Manage health and safety (10482) Manage labor relations (10483) Manage collective bargaining process (10484)			for employees (10508) 5.4.3.2 Develop family support systems (10509) 5.4.3.3 Review retention and motivation indicators (10510)
		5.3.3.4	Manage labor management partnerships (10485)		5.4.4	5.4.3.4 Review compensation plan (10511) Administer payroll (10497)
	5.3.4	Manage 5.3.4.1	employee development (10472) Develop competency management plans	5.5	Re-de 5.5.1	eploy and retire employees (10413) Manage promotion and demotion process (10512)
		5.3.4.2	(10486) Define employee development guidelines (10487)		5.5.2 5.5.3	Manage separation (10513)
		5.3.4.3 5.3.4.4	Develop employee career plans (10488) Manage employee skills development (10489)		5.5.4 5.5.5	Manage leave of absence (10515)
	5.3.5				5.5.6	(10516)
		5.3.5.2	needs (10490) Develop competencies (10491)		5.5.7	
		5.3.5.3	Establish training needs by analysis of required and available skills (10492)		5.5.8	
		5.3.5.4	Develop, conduct, and manage employee and/ or management training programs (10493)		5.5.9	
5.4	Rewai	d and ret	ain employees (10412)		J.J.10	3 Manage employee relocation process (10321)
	5.4.1		and manage reward, recognition, and	5.6		age employee information (10414)
			on programs (10494)		5.6.1	
		5.4.1.1	Develop salary/compensation structure and plan (10498)		5.6.2	
		5.4.1.2	Develop benefits and reward plan (10499)		5.6.3	. ,
		5.4.1.3	Perform competitive analysis of benefits and rewards (10500)		5.6.4	(HRIS) (10525)
		5.4.1.4	Identify compensation requirements based on financial, benefits, and HR policies (10501)		5.6.5 5.6.6	
		5.4.1.5	Administer compensation and rewards to employees (10502)		5.6.7	Manage employee communication (10528) 5.6.7.1 Develop employee communication plan (10529)
		5.4.1.6	Reward and motivate employees (10503)			5.6.7.2 Manage/collect employee suggestions and
	5.4.2	Manage 5.4.2.1 5.4.2.2 5.4.2.3 5.4.2.4	and administer benefits (10495) Deliver employee benefits program (10504) Administer benefits enrollment (10505) Process claims (10506) Perform benefits reconciliation (10507)			perform employee research (10530) 5.6.7.3 Manage employee grievances (10531) 5.6.7.4 Publish employee communications (10532)

6.0 Manage Information Technology (10008)

6.1	Mana	ge the bu	siness of information technology (10563)			6.1.8.2	Negotiate with suppliers (10631)
	6.1.1	Develop	the enterprise IT strategy (10570)			6.1.8.3	Establish and maintain supplier relationships
		6.1.1.1	Build strategic intelligence (10603)				(10632)
		6.1.1.2	Identify long-term IT needs of the enterprise in			6.1.8.4	Evaluate supplier performance (10633)
		0110	collaboration with stakeholders (10604)			6.1.8.5	Assess contract performance (10634)
		6.1.1.3	Define strategic standards, guidelines, and principles (10605)	6.2	Devel	op and ma	anage IT customer relationships (10564)
		6.1.1.4	Define and establish IT architecture and		6.2.1	Develop	IT services and solutions strategy (10578)
		0.1.1.1	development standards (10606)			6.2.1.1	Research IT services and solutions to address
		6.1.1.5	Define strategic vendors for IT components			0040	business and user requirements (11244)
			(10607)			6.2.1.2	Translate business and user requirements into IT services and solutions requirements (11245)
		6.1.1.6	Establish IT governance organization and			6.2.1.3	Formulate IT services and solutions strategic
		6117	processes (10608)			0.2.1.0	initiatives (11246)
		6.1.1.7	Build strategic plan to support business objectives (10609)			6.2.1.4	Coordinate strategies with internal
	6.1.2	Dofine t	he enterprise architecture (10571)				stakeholders to ensure alignment (11247)
	0.1.2	6.1.2.1	Establish the enterprise architecture definition			6.2.1.5	Evaluate and select IT services and solutions
		0.1.2.1	(10611)				strategic initiatives (11248)
		6.1.2.2	Confirm enterprise architecture maintenance		6.2.2		and manage IT service levels (10579)
			approach (10612)			6.2.2.1	Create and maintain the IT services and solutions catalog (10640)
		6.1.2.3	Maintain the relevance of the enterprise			6.2.2.2	Establish and maintain business and IT service
		6.1.2.4	architecture (10613) Act as clearinghouse for IT research and			0.2.2.2	level agreements (10641)
		0.1.2.4	innovation (10614)			6.2.2.3	Evaluate and report service level attainment
		6.1.2.5	Govern the enterprise architecture (10615)				results (10642)
	6.1.3		the IT portfolio (10572)			6.2.2.4	Communicate business and IT service level
		6.1.3.1	Establish the IT portfolio (10616)		0.00	Б. (improvement opportunities (10643)
		6.1.3.2	Analyze and evaluate the value of the IT		6.2.3		demand-side management (DSM) for es (10580)
		0.4.0.0	portfolio for the enterprise (10617)			6.2.3.1	Analyze IT services and solutions consumption
		6.1.3.3	Provision resources in accordance with strategic priorities (10618)			0.2.0.1	and usage (10644)
	6.1.4	Dorform	IT research and innovation (10573)			6.2.3.2	Develop and implement incentive programs
	0.1.4	6.1.4.1	Research technologies to innovate IT services				that improve consumption efficiency (10645)
		0.1.4.1	and solutions (10620)			6.2.3.3	Develop volume/unit forecast for IT services
		6.1.4.2	Transition viable technologies for IT services				and solutions (10646)
			and solutions development (10621)		6.2.4		IT customer satisfaction (10581)
	6.1.5		IT financial management (10574)			0.2.4.1	Capture and analyze customer satisfaction (10647)
		6.1.5.1	Develop and maintain IT services and solutions			6.2.4.2	Assess and communicate customer
		0150	cost transparency (10622)				satisfaction patterns (10648)
		6.1.5.2	Establish and maintain accounting process (10623)			6.2.4.3	Initiate improvements based on customer
		6.1.5.3	Tie project funding to business case decision				satisfaction patterns (10649)
		0.1.0.0	checkpoints (10624)		6.2.5		T services and solutions (10582)
	6.1.6	Evaluate	e and communicate IT business value and			6.2.5.1	Develop IT services and solutions marketing
		perform	ance (10575)			6.2.5.2	strategy (10650) Develop and manage IT customer strategy
		6.1.6.1	Establish and monitor key performance			0.2.3.2	(10651)
		0.4.0.0	indicators (10625)			6.2.5.3	Manage IT services and solutions advertising
		6.1.6.2 6.1.6.3	Evaluate IT plan performance (10626) Communicate IT value (10627)				and promotional campaigns (10652)
	617					6.2.5.4	Process and track IT services and solutions
	6.1.7	6.1.7.1	IT staff management (10576) Develop IT leadership and staff (10628)				orders (10653)
		6.1.7.1	Manage IT staff performance (10629)	6.3	Mana	ge busine	ess resiliency and risk (11216)
	6.1.8		e IT suppliers and contracts (10577)		6.3.1	_	and manage business resiliency (11217)
	-	6.1.8.1	Develop IT (development and delivery) sourcing			6.3.1.1	Develop the business resilience strategy
			strategies (10630)				(11221)

		6.3.1.2	Perform continuous business operations planning (11222)	6.5	Devel (10566		naintain information technology solutions
		6.3.1.3 6.3.1.4	Test continuous business operations (11223) Maintain continuous business operations (11224)		6.5.1	Develo p 6.5.1.1	the IT development strategy (10587) Establish sourcing strategy for IT development (10666)
	6.3.2	Develop 6.3.2.1	and manage regulatory compliance (11218) Develop the regulatory compliance strategy			6.5.1.2	Define development processes, methodologies, and tools standards (10667)
		6.3.2.2	(11225) Establish regulatory compliance controls			6.5.1.3	Select development methodologies and tools (10668)
			(11226)		6.5.2		IT services and solutions life cycle
		6.3.2.3	Manage regulatory compliance remediation (11227)			planning 6.5.2.1	g (10588) Plan development of new requirements (10669)
	6.3.3	Perform 6.3.3.1	integrated risk management (11219) Develop an integrated risk strategy and			6.5.2.2	Plan development of feature and functionality enhancement (10670)
		6.3.3.2	approach (11228) Manage integrated risks (11229)			6.5.2.3	Develop life cycle plan for IT services and solutions (10671)
	6.3.4		and implement security, privacy, and data		6.5.3	Develor	and maintain IT services and solutions
		protecti	on controls (11220)			archited	cture (10589)
		6.3.4.1	Establish information security, privacy, and data protection strategies and levels (11230)			6.5.3.1	Create IT services and solutions architecture (10672)
		6.3.4.2	Test, evaluate, and implement information security, and privacy and data protection			6.5.3.2	Revise IT services and solutions architecture (10673)
			controls (11231)			6.5.3.3	Retire IT services and solutions architecture (10674)
6.4		-	orise information (10565)		6.5.4	Create l	IT services and solutions (10590)
	6.4.1		information and content management es (10583)			6.5.4.1	Understand confirmed requirements (10675)
		6.4.1.1	Understand information and content management needs and IT services's role in			6.5.4.2 6.5.4.3	Design IT services and solutions (10676) Acquire/develop IT service/solution components (10677)
		0.410	executing the business strategy (10654)			6.5.4.4	Train services and solutions resources (10678)
		6.4.1.2	Assess the information and content management implications of new technologies			6.5.4.5	Test IT services/solutions (10679)
			(10655)		6.5.5	6.5.4.6	Confirm customer acceptance (10680) in IT services and solutions (10591)
		6.4.1.3	Identify and prioritize information and content management actions (10656)		0.3.3	6.5.5.1	Understand upkeep/enhance requirements and defect analysis (10681)
	6.4.2	Define t (10584)	he enterprise information architecture			6.5.5.2	Design change to existing IT service/solution (10682)
		6.4.2.1	Define information elements, composite structure, logical relationships and constraints,			6.5.5.3	Acquire/develop changed IT service/solution component (10683)
		0.400	taxonomy, and derivation rules (10657)			6.5.5.4	Test IT service/solution change (10684)
		6.4.2.2	Define information access requirements (10658)			6.5.5.5	Retire solutions and services (10685)
		6.4.2.3	Establish data custodianship (10659)	6.6	•	•	ation technology solutions (10567)
		6.4.2.4	Manage changes to content data architecture requirements (10660)		6.6.1	Develop 6.6.1.1	the IT deployment strategy (10592) Establish IT services and solutions change
	6.4.3	_	information resources (10585)				policies (10686)
		6.4.3.1	Define the enterprise information/data policies and standards (10661)			6.6.1.2	Define deployment process, procedures, and tools standards (10687)
		6.4.3.2	Develop and implement data and content administration (10662)			6.6.1.3	Select deployment methodologies and tools (10688)
	6.4.4		enterprise data and content management		6.6.2		d implement changes (10593)
		(10586)	Define accuracy and destinations of content			6.6.2.1	Plan change deployment (10689)
		6.4.4.1	Define sources and destinations of content data (10663)			6.6.2.2 6.6.2.3	Communicate changes to stakeholders (10690) Administer change schedule (10691)
		6.4.4.2	Manage technical interfaces to users of			6.6.2.4	Train impacted users (10692)
			content (10664)			6.6.2.5	Distribute and install change (10693)
		6.4.4.3	Manage retention, revision, and retirement of enterprise information (10665)			6.6.2.6	Verify change (10694)

	6.6.3	6.6.3.1 6.6.3.2	d manage releases (10594) Understand and coordinate release design and acceptance (10695) Plan release rollout (10696)			6.7.5.4 6.7.5.5 6.7.5.6 6.7.5.7	Manage performance and capacity (10711) Manage incidents (10712) Manage problems (10713) Manage inquiries (10714)
		6.6.3.3 6.6.3.4	Distribute and install release (10697) Verify release (10698)	6.8	Mana	ge IT kno	wledge (10569)
6.7	Dolive		oport information technology services		6.8.1		IT knowledge management strategy (10600)
J. <i>1</i>	(10568		oport information technology services			6.8.1.1 6.8.1.2	Understand IT knowledge needs (10715) Understand current IT knowledge flow (10716)
	6.7.1		IT services and solution delivery strategy			6.8.1.3	Coordinate strategy and roles with the enterprise KM function (10717)
		6.7.1.1	Establish sourcing strategy for IT delivery (10699)			6.8.1.4	Plan IT knowledge management actions and priorities (10718)
		6.7.1.2	Define delivery processes, procedures, and tools standards (10700)		6.8.2	Develop 6.8.2.1	and maintain IT knowledge map (10601)
		6.7.1.3	Select delivery methodologies and tools (10701)			0.0.2.1	Define knowledge elements, logical relationships and constraints, and currency rules (10719)
	6.7.2	Develop 6.7.2.1	IT support strategy (10596) Establish sourcing strategy for IT support			6.8.2.2	Identify IT knowledge sources and repositories (10720)
		6.7.2.2	(10702) Define IT support services (10703)			6.8.2.3	Identify IT knowledge-sharing opportunities (10721)
	6.7.3	Manage 6.7.3.1	IT infrastructure resources (10597) Manage IT inventory and assets (10704)			6.8.2.4	Define IT knowledge processes and approaches (10722)
		6.7.3.2	Manage IT resource capacity (10705)		6.8.3	_	e IT knowledge life cycle (10602)
	6.7.4	Manage 6.7.4.1	IT infrastructure operations (10598) Deliver IT services and solutions (10706)			6.8.3.1	Gather knowledge elements from IT knowledge sources (10723)
		6.7.4.2	Perform IT operations support services (10707)			6.8.3.2	Evaluate, create, and codify knowledge
	6.7.5	Support 6.7.5.1 6.7.5.2 6.7.5.3	IT services and solutions (10599) Manage availability (10708) Manage facilities (10709) Manage backup/recovery (10710)			6.8.3.3 6.8.3.4 6.8.3.5	elements (10724) Deploy codified IT knowledge (10725) Update and retire IT knowledge (10726) Evaluate and improve IT knowledge strategies and processes (10727)

7.0 Manage Financial Resources (10009)

7.1	Perfo	rm planning and management accounting (10728)			7.1.4.2	Evaluate new products (10783)
	7.1.1	Perform planning/budgeting/forecasting (10738)			7.1.4.3	Perform life cycle costing (10784)
		7.1.1.1 Develop and maintain budget policies and			7.1.4.4	Optimize customer and product mix (10785)
		procedures (10771)			7.1.4.5	Track performance of new-customer and new-
		7.1.1.2 Prepare periodic budgets and plans (10772)				product strategies (10786)
		7.1.1.3 Prepare periodic financial forecasts (10773)			7.1.4.6	Prepare activity-based performance measures
	7.1.2	Perform cost accounting and control (10739)			7447	(10787)
		7.1.2.1 Perform inventory accounting (10774)			7.1.4.7	Manage continuous cost improvement (10788)
		7.1.2.2 Perform cost of sales analysis (10775)	2 I	Perfo	rm reveni	ue accounting (10729)
		7.1.2.3 Perform product costing (10776)		7.2.1		customer credit (10742)
		7.1.2.4 Perform variance analysis (10777)		/ .Z. I		
		7.1.2.5 Report on profitability (11175)			7.2.1.1	Establish credit policies (10789)
	7.1.3				7.2.1.2	Analyze/approve new account applications
	7.1.3	3 , ,				(10790)
		7.1.3.1 Determine key cost drivers (10778)			7.2.1.3	Review existing accounts (10791)
		7.1.3.2 Measure cost drivers (10779)			7.2.1.4	Produce credit/collection reports (10792)
		7.1.3.3 Determine critical activities (10780)			7.2.1.5	Reinstate or suspend accounts based on credit
		7.1.3.4 Manage asset resource deployment and				policies (10793)
		utilization (10781)	-	7.2.2	Invoice	customer (10743)
	7.1.4	Evaluate and manage financial performance (10741)	,	.2.2	7.2.2.1	Maintain customer/product master files (10794)
		7.1.4.1 Assess customer and product profitability			7.2.2.1	Generate customer billing data (10795)
		(10782)			1.4.4.4	deficiate easterner billing data (10733)

		7.2.2.3 7.2.2.4	Transmit billing data to customers (10796) Post receivable entries (10797)			7.3.3.5	Calculate and record depreciation expense (10833)
		7.2.2.5	Resolve customer billing inquiries (10798)			7.3.3.6	Process and record fixed-asset maintenance
	7.2.3		s accounts receivable (AR) (10744)				and repair expenses (10832)
		7.2.3.1	Establish AR policies (10799)			7.3.3.7	Reconcile fixed-asset ledger (10834)
		7.2.3.2	Receive/deposit customer payments (10800)			7.3.3.8	Track fixed-assets including physical inventory
		7.2.3.3	Apply cash remittances (10801)			7000	(10835)
		7.2.3.4	Prepare AR reports (10802)			7.3.3.9	Provide fixed-asset data to support tax,
		7.2.3.5	Post AR activity to the general ledger (10803)				statutory, and regulatory reporting (10836)
	7.2.4	_	e and process collections (10745		7.3.4		financial reporting (10750)
		7.2.4.1	Establish policies for delinquent accounts (10804)			7.3.4.1	Prepare business unit financial statements (10837)
		7.2.4.2	Analyze delinquent account balances (10805)			7.3.4.2	Prepare consolidated financial statements
		7.2.4.3	Correspond/negotiate with delinquent			7.3.4.3	(10838)
		7044	accounts (10806)			7.3.4.3	Perform business unit reporting/review management reports (10839)
		7.2.4.4	Discuss account resolution with internal			7.3.4.4	Perform consolidated reporting/review of cost
		7215	parties (10807)			7.3.4.4	management reports (10840)
		7.2.4.5	Process adjustments/write-off balances			7.3.4.5	Prepare statements for board review (10841)
			(10808)			7.3.4.6	Produce quarterly/annual filings and
	7.2.5		e and process adjustments/deductions			7.0.4.0	shareholder reports (10842)
		(10746)				7.3.4.7	Produce regulatory reports (10843)
		7.2.5.1	Establish policies/procedures for adjustments				
		7.2.5.2	(10809) Analyze adjustments (10810)	7.4	Mana	ge fixed-	asset project accounting (10731)
		7.2.5.2	Correspond/negotiate with customer (10811)		7.4.1	Perform	capital planning and project approval
		7.2.5.3	Discuss resolution with internal parties (10812)			(10751)	
		7.2.5.4	Prepare chargeback invoices (10813)			7.4.1.1	Develop capital investment policies and
		7.2.5.6	Process related entries (10814)				procedures (10844)
		7.2.0.0	11000331010100 (10014)			7.4.1.2	Develop and approve capital expenditure plans
7.3	Perfor	rm genera	al accounting and reporting (10730)			7.4.4.0	and budgets (10845)
7.3	Perfor 7.3.1		al accounting and reporting (10730) e policies and procedures (10747)			7.4.1.3	Review and approve capital projects and fixed-
7.3		Manage 7.3.1.1	e policies and procedures (10747) Negotiate service level agreements (10815)				Review and approve capital projects and fixed-asset acquisitions (10846)
7.3		Manage 7.3.1.1 7.3.1.2	e policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816)			7.4.1.3 7.4.1.4	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project
7.3		Manage 7.3.1.1 7.3.1.2 7.3.1.3	Policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817)		7.40	7.4.1.4	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847)
7.3	7.3.1	Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4	Policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818)		7.4.2	7.4.1.4 Perform	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752)
7.3		Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4 Perform	Policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818) In general accounting (10748)		7.4.2	7.4.1.4 Perform 7.4.2.1	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752) Create project account codes (10848)
7.3	7.3.1	Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4 Perform 7.3.2.1	Policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818) In general accounting (10748) Maintain chart of accounts (10819)		7.4.2	7.4.1.4 Perform 7.4.2.1 7.4.2.2	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849)
7.3	7.3.1	Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4 Perform 7.3.2.1 7.3.2.2	Policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818) In general accounting (10748) Maintain chart of accounts (10819) Process journal entries (10820)		7.4.2	7.4.1.4 Perform 7.4.2.1	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849) Monitor and track capital projects and budget
7.3	7.3.1	Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4 Perform 7.3.2.1 7.3.2.2 7.3.2.3	Policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818) General accounting (10748) Maintain chart of accounts (10819) Process journal entries (10820) Process allocations (10821)		7.4.2	7.4.1.4 Perform 7.4.2.1 7.4.2.2 7.4.2.3	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849) Monitor and track capital projects and budget spending (10850)
7.3	7.3.1	Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4 Perform 7.3.2.1 7.3.2.2	Policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818) General accounting (10748) Maintain chart of accounts (10819) Process journal entries (10820) Process allocations (10821) Process period-end adjustments (e.g., accruals,		7.4.2	7.4.1.4 Perform 7.4.2.1 7.4.2.2 7.4.2.3	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849) Monitor and track capital projects and budget spending (10850) Close/capitalize projects (10851)
7.3	7.3.1	Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4 Perform 7.3.2.1 7.3.2.2 7.3.2.3 7.3.2.4	Policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818) General accounting (10748) Maintain chart of accounts (10819) Process journal entries (10820) Process allocations (10821) Process period-end adjustments (e.g., accruals, currency conversions) (10822)		7.4.2	7.4.1.4 Perform 7.4.2.1 7.4.2.2 7.4.2.3	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849) Monitor and track capital projects and budget spending (10850) Close/capitalize projects (10851) Measure financial returns on completed capital
7.3	7.3.1	Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4 Perform 7.3.2.1 7.3.2.2 7.3.2.3 7.3.2.4 7.3.2.5	Repolicies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818) In general accounting (10748) Maintain chart of accounts (10819) Process journal entries (10820) Process allocations (10821) Process period-end adjustments (e.g., accruals, currency conversions) (10822) Post and reconcile intercompany transactions (10823)	7.5		7.4.1.4 Perform 7.4.2.1 7.4.2.2 7.4.2.3	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849) Monitor and track capital projects and budget spending (10850) Close/capitalize projects (10851) Measure financial returns on completed capital projects (10852)
7.3	7.3.1	Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4 Perform 7.3.2.1 7.3.2.2 7.3.2.3 7.3.2.4 7.3.2.5	Repolicies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818) Report accounting (10748) Maintain chart of accounts (10819) Process journal entries (10820) Process allocations (10821) Process period-end adjustments (e.g., accruals, currency conversions) (10822) Post and reconcile intercompany transactions (10823) Reconcile general ledger accounts (10824)	7.5	Proce	7.4.1.4 Perform 7.4.2.1 7.4.2.2 7.4.2.3 7.4.2.4 7.4.2.5 Pess payrol	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849) Monitor and track capital projects and budget spending (10850) Close/capitalize projects (10851) Measure financial returns on completed capital projects (10852)
7.3	7.3.1	Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4 Perform 7.3.2.1 7.3.2.2 7.3.2.3 7.3.2.4 7.3.2.5	Policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818) General accounting (10748) Maintain chart of accounts (10819) Process journal entries (10820) Process allocations (10821) Process period-end adjustments (e.g., accruals, currency conversions) (10822) Post and reconcile intercompany transactions (10823) Reconcile general ledger accounts (10824) Perform consolidations and process	7.5		7.4.1.4 Perform 7.4.2.1 7.4.2.2 7.4.2.3 7.4.2.4 7.4.2.5 Pess payrol Report t	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849) Monitor and track capital projects and budget spending (10850) Close/capitalize projects (10851) Measure financial returns on completed capital projects (10852) II (10732) ime (10753)
7.3	7.3.1	Manage 7.3.1.1 7.3.1.2 7.3.1.3 7.3.1.4 Perform 7.3.2.1 7.3.2.2 7.3.2.3 7.3.2.4 7.3.2.5 7.3.2.5	Policies and procedures (10747) Negotiate service level agreements (10815) Establish accounting policies (10816) Set and enforce approval limits (10817) Establish common financial systems (10818) General accounting (10748) Maintain chart of accounts (10819) Process journal entries (10820) Process allocations (10821) Process period-end adjustments (e.g., accruals, currency conversions) (10822) Post and reconcile intercompany transactions (10823) Reconcile general ledger accounts (10824) Perform consolidations and process eliminations (10825)	7.5	Proce	7.4.1.4 Perform 7.4.2.1 7.4.2.2 7.4.2.3 7.4.2.4 7.4.2.5 Pess payrol	Review and approve capital projects and fixed- asset acquisitions (10846) Conduct financial justification for project approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849) Monitor and track capital projects and budget spending (10850) Close/capitalize projects (10851) Measure financial returns on completed capital projects (10852)
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		7.5.2.2	Maintain and administer employee earnings information (10859)			7.7.2.3	Process and oversee electronic fund transfers (EFTs) (10895)
		7.5.2.3	Maintain and administer applicable deductions (10860)			7.7.2.4 7.7.2.5	Develop cash-flow forecasts (10896) Manage cash flows (10897)
		7.5.2.4	Monitor changes in tax status of employees			7.7.2.5 7.7.2.6	Produce cash management accounting
		7.3.2.4	(10861)			7.7.2.0	transactions and reports (10898)
		7.5.2.5 7.5.2.6	Process and distribute payments (10862) Process and distribute manual checks (10863)			7.7.2.7	Manage and oversee banking relationships (10899)
		7.5.2.7 7.5.2.8	Process period end adjustments (10864) Respond to employee payroll inquiries (10865)			7.7.2.8	Analyze, negotiate, resolve, and confirm bank fees (10900)
	7.5.3		payroll taxes (10755)		7.7.3	Manage	in-house bank accounts (10760)
		7.5.3.1	Calculate and pay applicable payroll taxes (10866)			7.7.3.1	Manage in-house bank accounts for subsidiaries (10901)
		7.5.3.2	Produce and distribute employee annual tax statements (10867)			7.7.3.2	Manage and facilitate inter-company borrowing transactions (10902)
		7.5.3.3	File regulatory payroll tax forms (10868)			7.7.3.3	Manage centralized outgoing payments on behalf of subsidiaries (10903)
7.6	Proce (10733		nts payable and expense reimbursements			7.7.3.4	Manage central incoming payments on behalf of subsidiaries (10904)
	7.6.1	Process 7.6.1.1	accounts payable (10756) Verify AP pay file with PO vendor master file			7.7.3.5	Manage internal payments and netting transactions (10905)
			(10869)			7.7.3.6	Calculate interest and fees for in-house bank
		7.6.1.2	Maintain/manage electronic commerce (10870)				accounts (10906)
		7.6.1.3	Audit invoices and key data in AP system (10871)			7.7.3.7	Provide account statements for in-house bank accounts (10907)
		7.6.1.4	Approve payments (10872)		7.7.4	Manage	debt and investment (10761)
		7.6.1.5	Process financial accruals and reversals (10873)			7.7.4.1	Manage financial intermediary relationships (10908)
		7.6.1.6	Process taxes (10874)			7.7.4.2	Manage liquidity (10909)
		7.6.1.7 7.6.1.8	Research/resolve exceptions (10875) Process payments (10876)			7.7.4.3	Manage issuer exposure (10910)
		7.6.1.9	Respond to AP inquiries (10877)			7.7.4.4	Process and oversee debt and investment
		7.6.1.10	Retain records (10878)			7.7.4.5	transactions (10911) Process and oversee foreign currency
		7.6.1.11	Adjust accounting records (10879)			7.7.4.3	transactions (10912)
	7.6.2	Process	expense reimbursements (10757)			7.7.4.6	Produce debt and investment accounting
		7.6.2.1	Establish and communicate expense				transaction reports (10913)
			reimbursement policies and approval limits		7.7.5	Manage	financial risks (11208)
		7.6.2.2	(10880) Capture and report relevant tax data (10881)			7.7.5.1	Manage interest-rate risk (11209)
		7.6.2.2	Approve reimbursements and advances (10882)			7.7.5.2	Manage foreign-exchange risk (11210)
		7.6.2.4	Process reimbursements and advances (10883)			7.7.5.3	Manage exposure risk (11211)
		7.6.2.5	Manage personal accounts (10884)			7.7.5.4	Develop and execute hedging transactions (11212)
7.7	Mana	ge treasu	ry operations (10734)			7.7.5.5	Evaluate and refine hedging positions (11213)
	7.7.1	Manage 7.7.1.1	treasury policies and procedures (10758) Establish scope and governance of treasury			7.7.5.6	Produce hedge accounting transactions and reports (11214)
			operations (10885)			7.7.5.7	Monitor credit (11215)
		7.7.1.2	Establish and publish treasury policies (10886)	7.8	Mana	ige intern	al controls (10735)
		7.7.1.3	Develop treasury procedures (10887)		7.8.1	Establisl	n internal controls, policies and procedures
		7.7.1.4	Monitor treasury procedures (10888)			(10762)	
		7.7.1.5 7.7.1.6	Audit treasury procedures (10889) Revise treasury procedures (10890)			7.8.1.1	Establish board of directors and audit
		7.7.1.0	Develop and confirm internal controls for			7040	committee (10914)
		7.7.1.7	treasury (10891)			7.8.1.2 7.8.1.3	Define and communicate code of ethics (10915) Assign roles and responsibility for internal
		7.7.1.8	Define system security requirements (10892)			1.0.1.3	controls (10916)
	7.7.2	Manage	cash (10759)			7.8.1.4	Define business process objectives and risks
		7.7.2.1	Manage and reconcile cash positions (10893)				(11250)
		7.7.2.2	Manage cash equivalents (10894)			7.8.1.5	Define entity/unit risk tolerances (11251)

7.8.2 Operate controls and monitor compliance with internal controls policies and procedures (10763)

- 7.8.2.1 Design and implement control activities (10917)
- 7.8.2.2 Monitor control effectiveness (10918)
- 7.8.2.3 Remediate control deficiencies (10919)
- 7.8.2.4 Create compliance function (10920)
- 7.8.2.5 Operate compliance function (10921)
- 7.8.2.6 Implement and maintain controls-related enabling technologies and tools (10922)

7.8.3 Report on internal controls compliance (10764)

- 7.8.3.1 Report to external auditors (10923)
- 7.8.3.2 Report to regulators, share-/debt-holders, securities exchanges, etc. (10924)
- 7.8.3.3 Report to third parties (e.g., business partners) (10925)
- 7.8.3.4 Report to internal management (10926)

7.9 Manage taxes (10736)

- 7.9.1 Develop tax strategy and plan (10765)
 - 7.9.1.1 Develop foreign, national, state, and local tax strategy (10927)

- 7.9.1.2 Consolidate and optimize total tax plan (10928)
- 7.9.1.3 Maintain tax master data (10929)

7.9.2 Process taxes (10766)

- 7.9.2.1 Perform tax planning/strategy (10930)
- 7.9.2.2 Prepare returns (10931)
- 7.9.2.3 Prepare foreign taxes (10932)
- 7.9.2.4 Calculate deferred taxes (10933)
- 7.9.2.5 Account for taxes (10934)
- 7.9.2.6 Monitor tax compliance (10935)
- 7.9.2.7 Address tax inquiries (10936)

7.10 Manage international funds/consolidation (10737)

- 7.10.1 Monitor international rates (10767)\
- 7.10.2 Manage transactions (10768)
- 7.10.3 Monitor currency exposure/hedge currency (10769)
- 7.10.4 Report results (10770)

8.0 Acquire, Construct, and Manage Support Facilities and Non-Productive Assets (14203)

8.1 Design and construct/acquire support facilities (10937)

- 8.1.1 Develop property strategy and long-term vision (10941)
 - 8.1.1.1 Confirm alignment of property requirements with business strategy (10955)
 - 8.1.1.2 Assess the external environment (10956)
 - 8.1.1.3 Make build or buy decision (10957)
- 8.1.2 Develop, construct, and modify sites (10942)
- 8.1.3 Plan facility (10943)
 - 8.1.3.1 Design facility (10958)
 - 8.1.3.2 Analyze budget (10959)
 - 8.1.3.3 Select property (10960)
 - 8.1.3.4 Negotiate terms for facility (10961)
 - 8.1.3.5 Manage construction or modification to building (10962)

8.1.4 Provide workspace and assets (10944)

- 8.1.4.1 Acquire workspace and assets (10963)
- 8.1.4.2 Change fit/form/function of workspace and assets (10964)

8.2 Maintain non-productive assets (10938)

- 8.2.1 Move people and assets (10945)
 - 8.2.1.1 Relocate people (10965)
 - 8.2.1.2 Relocate material and tools (10966)
- 8.2.2 Repair workplace and assets (10946)
- 8.2.3 Provide preventative maintenance for workplace and assets (10947)
- 8.2.4 Manage security (10948)
- 8.2.5 Manage facilities operations (10949)

8.3 Dispose of non-productive assets (14204)

- 8.3.1 Develop exit strategy (14205)
- 8.3.2 Perform sale or trade (14206)
- 8.3.3 Perform exit activities (14207)

B.4 Manage physical risk (11207)

9.0 Manage Environmental Health and Safety (EHS) (11179)

9.1 Determine health, safety, and environment impacts (11180)

- 9.1.1 Evaluate environmental impact of products, services, and operations (11186)
- 9.1.2 Conduct health and safety and environmental audits (11187)

9.2 Develop and execute health, safety, and environmental program (11181)

- 9.2.1 Identify regulatory and stakeholder requirements (11188)
- 9.2.2 Assess future risks and opportunities (11189)
- 9.2.3 Create EHS policy (11190)
- 9.2.4 Record and manage EHS events (11191)

9.3 Train and educate employees (11182)

9.3.1 Communicate EHS issues to stakeholders and provide support (11192)

9.4 Monitor and manage health, safety, and environmental management program (11183)

- 9.4.1 Manage EHS costs and benefits (11193)
- 9.4.2 Measure and report EHS performance (11194)

- 9.4.2.1 Implement emergency response program (11196)
- 9.4.2.2 Implement pollution prevention program (11197)
- 9.4.3 Provide employees with EHS support (11195)

9.5 Ensure compliance with regulations (11184)

- 9.5.1 Monitor compliance (11198)
- 9.5.2 Perform compliance audit (11199)
- 9.5.3 Comply with regulatory stakeholders' requirements (11200)

9.6 Manage remediation efforts (11185)

- 9.6.1 Create remediation plans (11201)
- 9.6.2 Contact and confer with experts (11202)
- 9.6.3 Identify/dedicate resources (11203)
- 9.6.4 Investigate legal aspects (11204)
- 9.6.5 Investigate damage cause (11205)
- 9.6.6 Amend or create policy (11206)

10.0 Manage External Relationships (10012)

10.1 Build investor relationships (11010)

- 10.1.1 Plan, build, and manage lender relations (11035)
- 10.1.2 Plan, build, and manage analyst relations (11036)
- 10.1.3 Communicate with shareholders (11037)

10.2 Manage government and industry relationships (11011)

- 10.2.1 Manage government relations (11038)
- 10.2.2 Manage relations with quasi-government bodies (11039)
- 10.2.3 Manage relations with trade or industry groups (11040)
- 10.2.4 Manage lobby activities (11041)

10.3 Manage relations with board of directors (11012)

- 10.3.1 Report results (11042)
- 10.3.2 Report audit findings (11043)

10.4 Manage legal and ethical issues (11013)

- 10.4.1 Create ethics policies (11044)
- 10.4.2 Manage corporate governance policies (11045)
- 10.4.3 Develop and perform preventive law programs (11046)
- 10.4.4 Ensure compliance (11047)
 - 10.4.4.1 Plan and initiate compliance program (11053)
 - 10.4.4.2 Execute compliance program (11054)

10.4.5 Manage outside counsel (11048)

- 10.4.5.1 Assess problem and determine work requirements (11056)
- 10.4.5.2 Engage/retain outside counsel if necessary (11057)
- 10.4.5.3 Receive strategy/budget (11058)
- 10.4.5.4 Receive work product and manage/ monitor case and work performed (11059)
- 10.4.5.5 Process payment for legal services (11060)
- 10.4.5.6 Track legal activity/performance (11061)

10.4.6 Protect intellectual property (11049)

- 10.4.6.1 Manage copyrights and patents (11062)
- 10.4.6.2 Maintain intellectual property rights and restrictions (11063)
- 10.4.6.3 Administer licensing terms (11064)
- 10.4.6.4 Administer options (11065)
- 10.4.7 Resolve disputes and litigations (11050)
- 10.4.8 Provide legal advice/counseling (11051)
- 10.4.9 Negotiate and document agreements/contracts (11052)

10.5 Manage public relations program (11014)

- 10.5.1 Manage community relations (11066)
- 10.5.2 Manage media relations (11067)
- 10.5.3 Promote political stability (11068)
- 10.5.4 Create press releases (11069)
- 10.5.5 Issue press releases (11070)

11.0 Manage Knowledge, Improvement, and Change (10013)

11.1 Create and manage organizational performance strategy (11071) 11.1.1 Create enterprise measurement systems model (11075) 11.1.1.1 Establish performance measures (11080) 11.1.1.2 Establish performance monitoring frequency (11081) 11.1.3 Set performance targets (11082) 11.1.4 Measure process productivity (11076) 11.1.5 Measure cost effectiveness (11077) 11.1.6 Evaluate existing knowledge management approaches (11112) 11.3.2.1 Identify gaps and needs (11112) 11.3.2.2 Enhance/modify existing knowledge management approaches (11113) 11.3.2.5 Develop new knowledge management approaches (11114) 11.3.2.6 Implement new knowledge management approaches (11115) 11.3.3 Identify and plan KM projects (11097) 11.3.3.1 Identify strategic opportunities to apply KM
11.1.1 Create enterprise measurement systems model (11075) 11.1.1.1 Establish performance measures (11080) 11.1.1.2 Establish performance monitoring frequency (11081) 11.1.1.3 Set performance targets (11082) 11.1.2 Measure process productivity (11076) 11.3.2.3 Identify gaps and needs (11112) 11.3.2.4 Enhance/modify existing knowledge management approaches (11113) 11.3.2.5 Develop new knowledge management approaches (11114) 11.3.2.6 Implement new knowledge management approaches (11115) 11.3.2.1 Identify and plan KM projects (11097)
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(11075) 11.1.1.1 Establish performance measures (11080) 11.1.1.2 Establish performance monitoring frequency (11081) 11.1.1.3 Set performance targets (11082) 11.1.2 Measure process productivity (11076) 11.3.2.4 Emtartee/modify existing knowledge management approaches (11113) 11.3.2.5 Develop new knowledge management approaches (11114) 11.3.2.6 Implement new knowledge management approaches (11115) 11.3.2.6 Identify and plan KM projects (11097)
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11.1.2 Measure process productivity (11076) 11.3.3 Identify and plan KM projects (11097)
11.1.4 Measure staff efficiency (11078) approach(es) (11116)
11.1.5 Measure cycle time (11079) 11.3.3.2 Identify KM requirements and objectives
(11117)
11.2 Benchmark performance (11072) 11.3.3.3 Assess culture and readiness for KM approach
11.2.1 Conduct performance assessments (11083) (11118)
11.2.2 Develop benchmarking capabilities (11084) 11.3.3.4 Identify appropriate KM methodologies (e.g.,
11.2.3 Conduct process benchmarking (11085) 11.2.3 Compile and undate list of processes and self-service, communities, transfer) (11119) 11.3.3.5 Create business case and obtain funding
11.2.0.1 Compile and appeare institut processes and
organizations to benchmark (11089) 11.2.3.2 Establish benchmarks (11090) 11.3.3.6 Develop project measures and indicators
11.2.3.3 Measure performance against benchmarks (11090) (11121)
(11091) 11.3.4 Design and launch KM projects (11098)
11.2.4 Conduct competitive benchmarking (11086) 11.3.4.1 Design process for knowledge sharing,
11.2.4.1 Compile and undate list of processes and capture, and use (11122)
organizations to benchmark (11092) 11.3.4.2 Define roles and resources (11123)
11.2.4.2 Establish benchmarks (11093) 11.3.4.3 Identify specific IT requirements (11124)
11.2.4.3 Measure performance against benchmarks 11.3.4.4 Create training and communication plans
(11125) (113.4.5 Develop change management plans (11126)
11.2.5 Conduct gap analysis to understand need for and
degree of change needed (11087)
11.2.6 Establish need for change (11088) 11.3.4.7 Design and plan launch of KM project (11128)
11.3 Develop enterprise-wide knowledge management (KM) 11.3.4.8 Deploy the KM project (11129)
capability (11073) 11.3.5 Manage the KM project life cycle (11099)
11.3.1 Develop KM strategy (11095) 11.3.5.1 Assess alignment with business goals (11130)
11.3.1.1 Develop governance model (11100) 11.3.5.2 Evaluate impact of KM (strategy and projects)
11.3.1.2 Establish central KM core group (11101) on measures and outcomes (11131)
11.3.1.3 Define roles and accountability of core group 11.3.5.3 Promote and sustain activity and involvement
versus operating units (11102) 11.3.1.4 Develop funding models (11103) 11.3.5.4 Realign and refresh KM strategy and
11.5.1.4 Develop fulluling models (11165)
11.3.1.5 Identity links to key initiatives (1104)
11.3.1.6 Develop core KM methodologies (11105) 11.3.1.7 Assess IT needs and engage IT function 11.4.1 Plan for change (11124)
(11106) 11.4.1 Planfor change (11134)
11.3.1.8 Develop training and communication plans
(11107)
11.3.1.9 Develop change management approaches 11.4.1.2 Assess readiness for change (11139) 11.4.1.3 Determine stakeholders (11140)
(TTTU8) 11.4.1.4. Engage/identify champion (11141)
11.3.1.10 Develop strategic measures and indicators 11.4.1.5 Form design team (11142)
(11109) 11.4.1.6 Define scope (11143)
11.3.2 Assess knowledge management capabilities (11096) 11.4.1.7 Understand current state (11144)
11.3.2.1 Assess maturity of existing KM initiatives 11.4.1.8 Define future state (11145)
(11110) 11.4.1.9 Conduct risk analysis (11146)
11.4.1.10 Assess cultural issues (11147)

	11.4.1.11	Establish accountability for change management (11148)
	11.4.1.12	Identify barriers to change (11149)
	11.4.1.13	Determine change enablers (11150)
	11.4.1.14	Identify resources and develop measures
		(11151)
11.4.2	Design t	he change (11135)
	11.4.2.1	Assess connection to other initiatives (11152)
	11.4.2.2	Develop change management plans (11153)
	11.4.2.3	Develop training plan (11154)
	11.4.2.4	Develop communication plan (11155)
	11.4.2.5	Develop rewards/incentives plan (11156)
	11.4.2.6	Establish metrics (11157)
	11.4.2.7	Establish/clarify new roles (11158)
	11.4.2.8	Identify budget/roles (11159)
11 / 2	Implam	ant ahanga (11126)

11.4.3 Implement change (11136)

- 11.4.3.1 Create commitment for improvement/change (11160)
- 11.4.3.2 Reengineer business processes and systems (11161)
- 11.4.3.3 Support transition to new roles or exit strategies for incumbents (11162)
- 11.4.3.4 Monitor change (11163)

11.4.4 Sustain improvement (11137)

- 11.4.4.1 Monitor improved process performance (11164)
- 11.4.4.2 Capture and reuse lessons learned from change process (11165)
- 11.4.4.3 Take corrective action as necessary (11166)



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