LIFE SCIENCES PROCESS CLASSIFICATION FRAMEWORK®

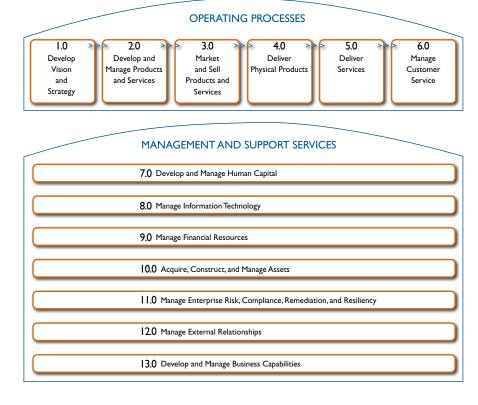
Version 7.2.2

LIFE SCIENCES PCF OVERVIEW

Based on the renowned Process Classification Framework® (PCF), The Life Sciences PCF® is customized to define processes used within organizations around the world. Version 7.2.2 of the The Life Sciences PCF® includes changes to make it compliant with the most recent information in The Life Sciences PCF® v7.0.5. This version of the PCF was developed in conjunction with IBM and contains feedback from a variety of individuals within the industry. APQC provided much of the subject matter expertise to create this industry specific process classification framework

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 Framework (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 20 years of creative use by thousands of organizations worldwide. The PCF provides the foundation for APQC's Open Standards Benchmarking® (OSB) database and the work of its advisory council of global industry leaders. Each version of the PCF will continue to be enhanced as the OSB database further develops definitions, processes, and measures. The PCF and associated measures and benchmarking surveys are available for download from the Open Standards Benchmarking web site at www.apqc.org/osb.

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 a 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 2014, APQC worked to enhance the cross-industry PCF and updated a number of industry-specific process classification frameworks.

The PCF is written in United States English language format.





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.

training, and tools they need to succeed. Founded in 1977, APQC is a member-based non profit serving organizations around the world in all sectors of business, education, and government. APQC is also a proud winner of the 2003, 2004, 2008, 2012, and 2013 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.

ABOUT APQC

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,

ABOUT IBM

At IBM, we collaborate with our clients, bringing together business insight, advanced research and technology to give them a distinct advantage in today's rapidly changing environment. Through our integrated approach to business design and execution, we help turn strategies into action. And with expertise in 17 industries and global capabilities that span 170 countries, we can help clients anticipate change and profit from new opportunities. For more information, visit www.ibm.com/services/qbs.

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PCF LEVELS EXPLAINED

Level I - Category

10.0 Manage Enterprise Risk, Compliance, Remediation and Resiliency (16437)

Represents the highest level of process in the enterprise, such as Manage customer service, Supply chain, Financial organization, and Human resources.

Level 2 - Process Group

10.1 Manage enterprise risk (17060)

Indicates the next level of processes and represents a group of processes. Perform after sales repairs, Procurement, Accounts payable, Recruit/source, and Develop sales strategy are examples of process groups.

Level 3 - Process

10.1.4 Manage business unit and function risk (17061)

A process is the next level of decomposition after a process group. The process may include elements related to variants and rework in addition to the core elements needed to accomplish the process.

Level 4 - Activity

10.1.4.3 Develop mitigation plans for risks (16458)

Indicates key events performed when executing a process. Examples of activities include Receive customer requests, Resolve customer complaints, and Negotiate purchasing contracts.

Level 5 - Task

10.1.4.3.1 Assess adequacy of insurance cover (18129)

Tasks represent the next level of hierarchical decomposition after activities. Tasks are generally much more fine grained and may vary widely across industries. Examples include: Create business case and obtain funding and Design recognition and reward approaches.

PROCESS ELEMENT NUMBERING SCHEME

The PCF identifies each process element using a unique 5-digit reference number following the name of the process element.[i.e., (16437), (17060), (17061) (16458), (18129), shown in the above graphic]. This number will always refer to the conceptual definition of the process element. The actual process elements and actual definition may change, but conceptually the decomposition will remain consistent considering the entire scope of the PCF. A new 5-digit number will be assigned to a process element if its definition substantially changes.

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This work is based in part on an Industry Process Classification Framework ("PCF"), an open standard developed by APQC and IBM to promote benchmarking and best practices worldwide. The PCF is intended to facilitate organizational improvement through process management and benchmarking, regardless of industry, size, or geography. To download the full PCF or other industry-specific versions of the PCF, as well as associated measures and benchmarking, please visit www.apqc.org/pcf.

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			3.1.1.3.1	Determine market share gain/loss (10115)				3.2.3.7.2	Define omni-channel requirements
		3.1.1.4	Analyze m	arket and industry trends (10110)				00070	(16591)
		3.1.1.5	•	ompeting organizations, competitive/ products/services (10111)				3.2.3.7.3	Develop omni-channel policies and procedures (16592)
		3.1.1.6	Evaluate 6	existing products/services (10112)			3.2.3.8	Develop a (20005)	and manage execution roadmap
		3.1.1.7		ernal and external business ent (10113)		3.2.4	Analyze	and manag	e channel performance (20006)
	3.1.2		and prioriti	ze market opportunities (10107)			3.2.4.1	Establish (16573)	channel-specific metrics and targets
		3.1.2.1	•	narket opportunities (10116)			3.2.4.2		and report performance (16574)
		3.1.2.2		e target segments (10117)			3.2.4.3		and report events influencing factors
			3.1.2.2.1	Identify under-served and saturated				(16575)	
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			(10118)	s and overall business strategy		3.2.5	Develop	marketing (communication strategy (16848)
		3.1.2.4	Validate o	pportunities (10119)			3.2.5.1	Develop ((16849)	customer communication calendar
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	3.3.4.3	Define target audience (10160)			3.4.2.6	Conduct planning activities for major trade
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	3.3.4.6	Evaluate promotional performance metrics			0.4.0.0	strategies (10141)
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		3.3.1.11	3.5.1.11.1 Perform sales calls (10190)			3.5.5.2.4 Record address details (10204)
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		3.5.3.1	Select key customers/accounts (20013)		3.5.5.4	Determine fulfillment process (10197)
		3.5.3.2	Develop sales/key account plan (11173)		3.5.5.5	Enter orders into system (10198)
		3.5.3.3	Manage sales/key account plan (20014)		3.5.5.6	Identify/perform cross-sell/up-sell activity (17404)
		3.5.3.4	Manage customer relationships (11174)		3.5.5.7	Process back orders and updates (10199)
		3.5.3.5	Manage customer master data (14208)		3.5.5.8	Handle sales order inquiries including post-
			3.5.3.5.1 Collect and merge internal and third-		3.3.3.0	order fulfillment transactions (10200)
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			3.5.3.5.2 De-duplicate customer data (16599)		3.5.6.1	Provide sales and product/service training to
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		(11779) 3.5.4.1	Receive Request For Proposal (RFP)/Request For			3.5.6.1.1 Provide certification enablement training (20019)
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		3.5.4.2	Refine customer requirements (11780)			(20020)
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		3.5.4.4	Perform competitive analysis (11783)			(20021)
		3.5.4.5	Validate with strategy/business plans (11784)		3.5.6.2	Provide marketing materials to sales partners/
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		3.5.4.7	Develop solution and delivery approach (20015)		3.5.6.4	Manage sales partner/alliance master data
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4.0 Deliver Physical Products (20022)

4.1	Plan f	or and al	lign supply chain resources (10215)			4.1.5.8	Manage dispatch plan attainment (10259)
	4.1.1	Develop	production and materials strategies (10221)			4.1.5.9	Calculate and optimize destination load plans
		4.1.1.1	Define manufacturing goals (10229)				(10260)
		4.1.1.2	Define labor and materials policies (10230)			4.1.5.10	Manage partner load plan (10261)
		4.1.1.3	Define outsourcing policies (10231)			4.1.5.11	Manage cost of supply (10262)
		4.1.1.4	Define capital expense policies (10232)			4.1.5.12	Manage capacity utilization (10263)
		4.1.1.5	Define capacities (10233)		4.1.6		distribution planning constraints (10226)
		4.1.1.6	Define production network and supply constraints (10234)			4.1.6.1	Establish distribution center layout constraints (10267)
		4.1.1.7	Define production process (14193)			4.1.6.2	Establish inventory management constraints (10268)
		4.1.1.8	Define standard operating procedures (19551)			4.1.6.3	Establish transportation management
		4.1.1.9	Define production workplace layout and infrastructure (14194)				constraints (10269)
	4.1.2	Manage	demand for products (10222)			4.1.6.4	Establish storage management constraints (19558)
		4.1.2.1	Develop baseline demand forecasts (10235)		4.1.7	Review d	listribution planning policies (10227)
		4.1.2.2	Collaborate demand with customers (10236)		1.1.7	4.1.7.1	Review distribution network (10264)
		4.1.2.3	Develop demand consensus forecast (10237)			4.1.7.2	Establish sourcing relationships (10265)
		4.1.2.4	Determine available to promise (10238)			4.1.7.3	Establish dynamic deployment policies (10266)
		4.1.2.5	Monitor activity against demand forecast and		4.1.8		quality standards and procedures (10368)
			revise forecast (10239)			4.1.8.1	Establish quality targets (10371)
		4.1.2.6	Evaluate and revise demand forecasting approach			4.1.8.2	Develop standard testing procedures (10372)
			(10240)			4.1.8.3	Communicate quality specifications (10373)
		4.1.2.7	Measure demand forecast accuracy (10241)	4.2	Procu		ials and services (10216)
	4.1.3		naterials plan (10223)	7.2			
		4.1.3.1	Create unconstrained plan (10242)		4.2.1		ourcing governance and perform category nent (10277)
		4.1.3.2	Collaborate with supplier and contract			4.2.1.1	Develop procurement plan (10281)
			manufacturers (10243)			4.2.1.2	Clarify purchasing requirements (10282)
		4.1.3.3	Identify critical materials and supplier capacity (10244)			4.2.1.3	Establish materials management contingency
		4.1.3.4	Monitor material specifications (10245)			1011	plans (10283)
		4.1.3.5	Generate constrained plan (10246)			4.2.1.4	Match needs to supply capabilities (10284)
		4.1.3.6	Define production balance and control (14196)			4.2.1.5	Analyze organization's spend profile (10285)
	4.1.4	Create a 4.1.4.1	nd manage master production schedule (10224) Model production network to enable simulation			4.2.1.6	Seek opportunities to improve efficiency and value (10286)
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		4.1.4.2	Create master production schedule (20024)		4.2.2	Develop	sourcing and category management strategies
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	4.1.5		ribution requirements (17042)		4.2.3	Select su	uppliers and develop/maintain contracts (10278)
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		4.1.5.2	Determine finished goods inventory requirements at destination (10253)			4.2.3.2	Certify and validate suppliers (10289)
		4.1.5.3	Determine product storage facility requirements			4.2.3.3	Negotiate and establish contracts (10290)
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		4.1.5.4	Calculate requirements at destination (10254)		4.2.4	Order ma	terials and services (10279)
		4.1.5.5	Calculate consolidation at source (10255)			4.2.4.1	Process/Review requisitions (10292)
		4.1.5.6	Manage collaborative replenishment planning			4.2.4.2	Approve requisitions (10293)
			(10256)			4.2.4.3	Solicit/Track vendor quotes (10294)
		4.1.5.7	Calculate and optimize destination dispatch			4.2.4.4	Create/Distribute purchase orders (10295)
			plan (10258)			4.2.4.5	Expedite orders and satisfy inquiries (10296)

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		4.2.4.6 4.2.4.7		purchase orders (10297) /Resolve order exceptions (10298)			4422	materials (12830)
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	4.2.3	4.2.5.1		Vanage supplier information (10299)		4.4.3	Conduct	stability and validating tests and maintain test
		4.2.5.1		Analyze procurement and vendor		1.1.0	results (
			performar	nce (10300)			4.4.3.1	Perform testing using the standard testing procedure (12833)
		4.2.5.3	Support II (10301)	nventory and production processes			4.4.3.2	Record test results (12834)
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4.3				product (10217)			4.4.4.1	Determine batch numbering system (12836)
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				Perform advanced process control (19568)			4.6.1.1	Translate customer service requirements into logistics requirements (10343)
			4.3.2.5.3	Perform real-time optimization (19569)			4.6.1.2	Design logistics network (10344)
			4.3.2.5.4	Manage plant alarms and alerts			4.6.1.3	Communicate outsourcing needs (10345)
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		4.3.2.8		o EBR (12808)			4.6.1.6	Define key performance measures (10348)
		4.3.2.9		BR reporting (12809)			4.6.1.7	Define reverse logistics strategy (16905)
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		4.3.3.1		release bulk (12811)			4.6.2.1	Plan inbound material receipts (10349)
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4.4				ce/Quality Control (12826)			4.6.2.5	Control quality of returned parts (12708)
	4.4.1	•		in quality management system (12827)			4.6.2.6	Salvage or repair returned products (20109)
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		4.4.2.2	nevelop s	tandard testing procedures for all		4.6.3	operate	warehousing (10340)

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4.6.3.1	Track inventory deployment (10353)			(10359)
4.6.3.2	Receive, inspect, and store inbound deliveries		4.6.3.8	Manage warehouse transfers (20957)
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4.6.3.5	Track inventory accuracy (10357)		4.6.4.2	Track carrier delivery performance (10361)
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	performance (10358)		4.6.4.4	Process and audit carrier invoices and
4.6.3.7	Manage physical finished goods inventory			documents (10363)

5.0 Deliver Service (20025)

5.1	Estab (2002		ice delivery governance and strategies			5.2.2.6	Monitor and manage resource capacity and availability (20056)	
	5.1.1	Establish	service delivery governance (20027)		5.2.3	Enable s	ervice delivery resources (12127)	
		5.1.1.1	Set up and maintain service delivery			5.2.3.1	Develop service delivery training plan (12128)	
			governance and management system (20028)			5.2.3.2	Develop training materials (12129)	
		5.1.1.2	Manage service delivery performance (20029)			5.2.3.3	Manage training schedule (12131)	
		5.1.1.3	Manage service delivery development and			5.2.3.4	Deliver operations training (12132)	
			direction (20030)			5.2.3.5	Deliver technical training (12133)	
		5.1.1.4	Solicit feedback from customer on service			5.2.3.6	Perform skill and capability testing (20057)	
	- 4 0	5 .	delivery satisfaction (20031)			5.2.3.7 Evaluate training effectiveness (12135)		
	5.1.2	•	service delivery strategies (20032)	5.3	Deliv	er servic	e to customer (20058)	
		5.1.2.1	Define service delivery goals (20033)	ļ	5.3.1	Initiate s	ervice delivery (20059)	
		5.1.2.2	Define labor policies (20034)		0.0.1	5.3.1.1	Review contract and agreed terms (20060)	
		5.1.2.3	Evaluate resource availability (20035)			5.3.1.2	Understand customer requirements and define	
		5.1.2.4	Define service delivery network and supply constraints (20036)				refine approach (20061)	
		5.1.2.5	Define service delivery process (20037)			5.3.1.3	Modify/revise and approve project plan (20062)	
		5.1.2.6	Review and validate service delivery procedures			5.3.1.4	Review customer business objectives (20063)	
			(20038)			5.3.1.5	Confirm environmental readiness (20064)	
		5.1.2.7	Define service delivery workplace layout and			5.3.1.6	Identify, select, and assign resources (20065)	
			infrastructure (20039)				5.3.1.6.1 Establish people objectives (20066)	
5.2	Mana	ge servi	ce delivery resources (20040)				5.3.1.6.2 Establish engagement rules (20067)	
	5.2.1	Manage	service delivery resource demand (20041)		5.3.2	5.3.1.7	Plan for service delivery (20068)	
		5.2.1.1	Monitor pipeline (20042)				service delivery (20069)	
		5.2.1.2	Develop baseline forecasts (20043)			5.3.2.1	Analyze environment and customer needs (20070)	
		5.2.1.3	Collaborate with customers (20044)			5.3.2.2	Define solution (20071)	
		5.2.1.4	Develop consensus forecast (20045)			5.3.2.3	Validate solution (20071)	
		5.2.1.5	Determine availability of skills to deliver on			5.3.2.4	Identify changes (20073)	
			current and forecast customer orders (20046)			5.3.2.5	, ,	
		5.2.1.6	Monitor activity against forecast and revise			5.3.2.5	Obtain approval to proceed (20074)	
			forecast (20047)				Make build/buy solution (20075)	
		5.2.1.7	Evaluate and revise forecasting approach (20048)		5.3.3	5.3.2.7 Complete	Deploy solution (20076) e service delivery (20077)	
		5.2.1.8	Measure forecast accuracy (20049)			5.3.3.1	Conduct service delivery/project review and	
	5.2.2	Create a	nd manage resource plan (20050)				evaluate success (20078)	
		5.2.2.1	Define and manage skills taxonomy (20051)			5.3.3.2	Complete/finalize financial management	
		5.2.2.2	Create resource plan (20052)				activities (20079)	
		5.2.2.3	Match resource demand with capacity, skills, and capabilities (20053)			5.3.3.3	Confirm delivery according to contract terms (20080)	
		5.2.2.4	Collaborate with suppliers and partners to			5.3.3.4	Release resources (20081)	
			supplement skills and capabilities (20054)	у		5.3.3.5	Manage service delivery completion (20082)	
		5.2.2.5	Identify critical resources and supplier capacity			5.3.3.6	Harvest knowledge (20083)	
			(20055)			5.3.3.7	Archive records and update systems (20084)	

6.0 Manage Customer Service (20592)

6.1	Devel	op custo	mer care/customer service strategy (10378)				complaint	ts (10400)	
	6.1.1		ustomer service requirements across the e (20086)			6.2.3.5	Analyze c redressal	ustomer complaints and response/ (19072)	
	6.1.2	-	ustomer service experience (20087)		6.2.4	•		verse events, and Corrective Action	
	6.1.3		nd manage customer service channel strategy			Preventiv 6.2.4.1		APA) (12840) ncidents and adverse events (12841)	
	6.1.4	(20088) Define ci	ustomer service policies and procedures (10382)			6.2.4.2	Investiga	te incidents and adverse events	
	6.1.5		target service level for each customer segment			6.2.4.3	(12842)	ncidents and adverse events (12843)	
	6.1.6		and manage plans to comply with HIPAA and stomer regulations (12839)			6.2.4.4		orrective Action Preventive Action	
	6.1.7	Define warranty offering (20089)				6.2.4.5	Capture a	and report adverse events (17705)	
		6.1.7.1	Determine and document warranty policies (16893)		6.2.5	6.2.4.6 Manage		and report trending analytics (12845) quiries (12846)	
		6.1.7.2	Create and manage warranty rules/claim codes for products (16890)			6.2.5.1 6.2.5.2		nedical inquiry (12847) edical inquiry (12848)	
		6.1.7.3	Agree on warranty responsibilities with suppliers (20090)			6.2.5.3 6.2.5.4	Track me	dical inquiry (12849) to medical inquiry (12850)	
		6.1.7.4	Define warranty related offerings for customers (20091)		6.2.6		and mana	ge product returns (12851) return request (12852)	
		6.1.7.5	Communicate warranty policies and offerings (12673)			6.2.6.2 6.2.6.3	Authorize	e return (12853) eturn authorization to customer (12854)	
	6.1.8	Develop	recall strategy (20092)			6.2.6.4		ceipt of return goods (12855)	
6.2	Plan a	and mana	ge customer service contacts (10379)	6.3	Servi		•	ales (12658)	
	6.2.1	Plan and	manage customer service work force (10387)	0.0	6.3.1		products (2		
		6.2.1.1	Forecast volume of customer service contacts		6.3.2	_	-	aims (12669)	
		6.2.1.2	(10390) Schedule customer service work force (10391)		3.3.2	6.3.2.1	•		
		6.2.1.3	Track work force utilization (10392)			6.3.2.2	Validate warranty claim (12671)		
		6.2.1.4	Monitor and evaluate quality of customer			6.3.2.3	Investiga	te warranty issues (20097)	
		0.2.1.4	interactions with customer service representatives (10393)				6.3.2.3.1	Define issue (20098)	
						6.3.2.3.2	Schedule field service (12677)		
	6.2.2	Manage inquiries	customer service problems, requests, and (10388)				6.3.2.3.3	Request and receive defective part (12678)	
		6.2.2.1	Receive customer problems, requests, and inquiries (10394)				6.3.2.3.4	Investigate issue/perform root cause analysis (20099)	
		6.2.2.2	Analyze problems, requests, and inquiries (13482)				6.3.2.3.5	recommendation for corrective	
		6.2.2.3	Resolve customer problems, requests, and inquiries (10395)			6.3.2.4		action (20100) e responsible party (20101)	
		6.2.2.4	Respond to customer problems, requests, and inquision (10206)			6.3.2.5		pre-authorizations (20102)	
		6.2.2.5	inquiries (10396) Identify and capture upsell/cross-sell			6.3.2.6		or reject warranty claim (12668)	
			opportunities (16928)			6.3.2.7	(20103)	ginator of approve/reject decision	
	622	6.2.2.6	Deliver opportunity to sales team (16937)			6.3.2.8		e payment (20104)	
	6.2.3	_	customer complaints (10389)		6.3.2.9		im (20105)		
		6.2.3.1 6.2.3.2	Receive customer complaints (10397)		6.3.3	6.3.2.10		e warranty transaction disposition	
		6.2.3.2	Route customer customer complaints (10398) Resolve customer complaints (10399)			Managa	(12667) nage supplier recovery (20106)		
		6.2.3.4	Respond to customer customer		0.3.3	6.3.3.1		upplier recovery claims (20107)	
		0.2.3.4	Heahona to castomer castomer			0.3.3.1	oreate St	ibbugi iecovetá rigiliia (50101)	

		6.3.3.2	Negotiate	e recoveries with suppliers (20108)		requests	, and inquiries handling (10401)
	6.3.4	Service p	roducts (10	218)		6.5.1.1	Solicit customer feedback on customer service
		6.3.4.1	individual customer (10320)				experience (11687)
						6.5.1.2	Analyze customer service data and identify
				Process customer request (10324)		0.5.4.0	improvement opportunities (11688)
				Create customer profile (10325)		6.5.1.3	Provide customer feedback to product management on customer service experience
				Generate service order (10326)			(18126)
		6.3.4.2	,	nd schedule resources to meet service ents (10321)	6.5.2	Measure	customer satisfaction with customer- complaint
			•	Create resourcing plan and schedule	0.0.2		and resolution (10402)
			0.3.4.2.1	(10327)		6.5.2.1	Solicit customer feedback on complaint
			6.3.4.2.2	Create service order fulfillment			handling and resolution (11236)
				schedule (10328)		6.5.2.2	Analyze customer complaint data and identify
		6.3.4.3	Provide se	ervice to specific customers (10322)			improvement opportunities (11237)
			6.3.4.3.1	Organize daily service order		6.5.2.3	Identify common customer complaints (11689)
				fulfillment schedule (10330)	6.5.3		customer satisfaction with products and services
				Execute product repair (10331)		(10403)	Caban and a list a set as la sustance of a discal
				Manage service order fulfillment (10332)		6.5.3.1	Gather and solicit post-sale customer feedback on products and services (11238)
		6.3.4.4	•	pality of service (10323)		6.5.3.2	Solicit post-sale customer feedback on ad
			6.3.4.4.1	Identify completed service orders for feedback (10334)		0.0.0.2	effectiveness (11239)
			6.3.4.4.2	Identify incomplete service orders and service failures (10335)		6.5.3.3	Solicit customer feedback on cross-channel experience (20117)
			6.3.4.4.3	Solicit customer feedback on services delivered (10336)		6.5.3.4	Analyze product and service satisfaction data and identify improvement opportunities (11240)
			6.3.4.4.4	Process customer feedback on services delivered (10337)		6.5.3.5	Provide feedback and insights to appropriate teams (product design/development, marketing,
6.4	Mana	ge produ	ct recalls	and regulatory audits (20110)		0 5 0 0	manufacturing) (11241)
	6.4.1	Initiate re	ecall (20111)	6.5.4	6.5.3.6	Manage post marketing clinical trials (12856)
	6.4.2	Assess th	ne liklihood	and consequences of occurrence of	0.3.4	6.5.4.1	and manage warranty performance (12672) Measure customer satisfaction with warranty
			rds (20112)			0.3.4.1	handling and resolution (20118)
	6.4.3	_		ed communications (20113)		6.5.4.2	Monitor and report on warranty management
	6.4.4		-	ports (20114)			metrics (12676)
	6.4.5			ecall effectiveness (20115)		6.5.4.3	Identify improvement opportunities (20119)
	6.4.6	_		nation (20116)		6.5.4.4	Identify opportunities to eliminate warranty
6.5				ce operations and customer		0 =	waste (12674)
		acion (20			0 = =	6.5.4.5	Investigate fraudulent claims (20120)
	6.5.1	Measure	customer s	atisfaction with customer problems,	6.5.5	Evaluate	recall performance (20121)

7.0 Develop and Manage Human Capital (10007)

7.1			anage human resources planning, policies,			7.2.1.7 Manage requisition dates (10452)			
		trategies			7.2.2	Recruit/Source candidates (10440)			
	7.1.1	Develop 7.1.1.1	human resources strategy (20958) Identify strategic HR needs (10418)			7.2.2.1	Determino (10453)	e recruitment methods and channels	
		7.1.1.2	Define HR and business function roles and			7.2.2.2	Perform r	ecruiting activities/events (10454)	
			accountability (10419)			7.2.2.3	Manage r	recruitment vendors (10455)	
		7.1.1.3	Determine HR costs (10420)			7.2.2.4	Manage 6	employee referral programs (17047)	
		7.1.1.4	Establish HR measures (10421)			7.2.2.5	Manage r	recruitment channels (17048)	
		7.1.1.5	Communicate HR strategies (10422)		7.2.3	Screen a	and select ca	andidates (20123)	
		7.1.1.6	Develop strategy for HR systems/technologies/tools (10432)			7.2.3.1	Identify a (10456)	nd deploy candidate selection tools	
		7.1.1.7	Manage employer branding (20606)			7.2.3.2	Interview	candidates (10457)	
	7.1.2	Develop	and implement workforce strategy and policies			7.2.3.3	Test cand	lidates (10458)	
		(17045)				7.2.3.4	Select an	d reject candidates (10459)	
		7.1.2.1	Gather skill requirements according to		7.2.4	Manage		e-hire (10443)	
			corporate strategy and market environment			7.2.4.1		and make offer (10463)	
		7400	(10423)			7.2.4.2	Negotiate	e offer (10464)	
		7.1.2.2	Plan employee resourcing requirements per business unit/organization (10424)			7.2.4.3	_	lidate (10465)	
		7.1.2.3	Develop compensation plan (10425)		7.2.5	Manage	applicant ir	nformation (10444)	
		7.1.2.0	7.1.2.3.1 Establish incentive plan (10210)			7.2.5.1	Obtain ca	ndidate background information (10460)	
		7.1.2.4	Develop succession plan (10426)			7.2.5.2		oplicant record (10466)	
		7.1.2.5	Develop high performers/leadership programs			7.2.5.3	Manage/	track applicant data (10467)	
			(16938)				7.2.5.3.1	Complete position classification and level of experience (20124)	
		7.1.2.6	Develop employee diversity plan (10427)			7.2.5.4	Archivo a	nd retain records of non-hires (10468)	
		7.1.2.7	Develop training program (11622)	7.0					
		7.1.2.8	Develop recruitment program (11623)	7.3		ige emplo ing (2059!	-	parding, development, and	
		7.1.2.9	Develop other HR programs (10428)			_			
		7.1.2.10	Develop HR policies (10429)		7.3.1			prientation and deployment (10469)	
		7.1.2.11	Administer HR policies (10430)			7.3.1.1		aintain employee on-boarding program	
		7.1.2.12	Plan employee benefits (10431)				(10474)	Davidon ampleyes industion	
		7.1.2.13	Develop workforce strategy models (10433)				7.3.1.1.1	Develop employee induction program (10477)	
	710		Implement workforce strategy models (20122)				73112	Maintain/Update employee	
	7.1.3	7.1.3.1	and update strategy, plans, and policies (10417) Measure realization of objectives (10434)					induction program (10478)	
		7.1.3.2	Measure contribution to business strategy (10435)			7.3.1.2		the effectiveness of the employee	
		7.1.3.3	Communicate plans and provide updates to stakeholders (10436)			7.3.1.3		ng program (11243) on-boarding program (17050)	
		7.1.3.4	Review and revise HR plans (10438)		7.3.2	Manage	employee p	performance (10470)	
	7.1.4		competency management models (17046)			7.3.2.1	Define em	nployee performance objectives (10479)	
7.2			e, and select employees (10410)			7.3.2.2		appraise, and manage employee nce (10480)	
	7.2.1	Manage	employee requisitions (10439)			7.3.2.3	•	and review performance program	
		7.2.1.1	Align staffing plan to work force plan and business unit strategies/resource needs (10445)		700		(10481)		
		7.2.1.2	Develop and maintain job descriptions (10447)		7.3.3	_		development (10472)	
		7.2.1.3				7.3.3.1		nployee development guidelines (10487)	
		7.2.1.4	Post job requisitions (10448)			7.3.3.2	paths (10	employee career plans and career	
		7.2.1.5	Modify job requisitions (10450)			7.3.3.3	•	employee skill and competency	
		7.2.1.6	Notify hiring manager (10451)			7.0.0.0		ent (17051)	

7.3.4 Develop and train employees (10479) 7.3.4.1 Align employee with organization development needs (10490) 7.3.4.2 Define employee competencies (104940) 7.3.4.3 Align learning programs with competencies (10491) 7.3.4.4 Establish training needs by analysis of required and available skills (10492) 7.3.4.5 Develop, conduct, and manage employee and/or management training programs (10493) 7.3.4.6 Manage examinations and certifications (20125) 7.3.4.6.1 Liase with external certification subtroffices (20126) 7.3.4.6.2 Administer possible subtroffices (20126) 7.3.4.6 Administer possible subtroffices (20126) 7.3.4.6 Administer possible subtroffices (20126) 7.3.4.1 Manage employee relations (10493) 7.4.1 Manage appropriate support vort/life balance for employees (10413) 7.3.4.1 Align employee (20126) 7.3.4.2 Administer certification tests (20127) 7.3.4.3 Align employee (20128) 7.3.4.4 Manage employee relations (10483) 7.4.2 Manage employee relations (10483) 7.4.2 Manage appropriation suppose relations (20129) 7.4.3 Manage appropriation suppose (20129) 7.5.4 Manage employee relations (10493) 7.5.5 Reward and retain employees (10512) 7.5.6 Relocate employees information and analytics (17056) 7.5.7 Develop and manage envard, recognition, and motivation programs (10494) 7.5.1.1 Develop benefits and rewards plan (10498) 7.5.1.2 Develop benefits and rewards plan (10498) 7.5.1.3 Perform competitive analysis of benefits and rewards (10500) 7.5.1 Develop and manage envard, recognition, and motivation programs (10494) 7.5.1.2 Manage and administer benefits (10501) 7.5.3 Manage and administer benefits (10503) 7.5.4 Manage employee communication (10529) 7.5.5 Manage and administer benefits for employee benefits and rewards to employees (10502) 7.5.1 Reward and motivate employees (10503) 7.5.2 Manage and administer benefits (10569) 7.5.3 Develop and manage employee enderics (10526) 7.5.4 Relocate employee metrics (10526) 7.5.5 Reward and detain employees (10503) 7.5.6 Relocate employee information and analytics (17056) 7.5.7 Develo									
7.3.4.2 Define employee competencies (16940) 7.3.4.3 Align learning programs with competencies (16940) 7.3.4.3 Align learning programs with competencies (10491) 7.3.4.4 Establish training needs by analysis of required and available skills (10492) 7.3.4.5 Develop, conduct, and manage employee and/ or management training programs (10493) 7.5.4 Administer parametric analysis of programs (10494) 7.3.4.6 Liaise with external certification authorities (20125) 7.3.4.6.1 Liaise with external certification authorities (20126) 7.3.4.6.1 Administer certification authorities (20126) 7.3.4.6.2 Administer certification authorities (20127) 7.3.4.6.3 Appraise experience qualifications (20128) 7.3.4.6.4 Administer certificate issue and maintenance (20128) 7.3.5.5 Receive employee apartina (10510) 7.3.6.1 Receive required resources/skills and capabilities (20133) 7.3.6.1 Receive required resources/skills and capabilities (20133) 7.3.6.1 Receive employee (10520) 7.3.6.2 Manage employee (10520) 7.3.6 Manage employee (10520) 7.3.6 Manage emplo		7.3.4	Develop	and train e	mployees (10473)		7.5.3	Manage	employee assistance and retention (10496)
7.3.4.3 Align learning programs with competencies (10491) 7.3.4.6 Establish training needs by analysis of required and available skills (10492) 7.3.4.5 Develop, conduct, and manage employee and/ or management training programs (10493) 7.3.4.6 Administer payroll (10497) 7.3.4.6 Administer payroll (10497) 7.3.4.6 Administer certifications (20125) 7.3.4.6.1 Liaise with external certification authorities (20126) 7.3.4.6.2 Administer certification tests (20127) 7.3.4.6.3 Appraise experience qualifications (20129) 7.3.4.6 Administer certificate insue and maintenance (20129) 7.3.4.6 Administer certification tests (20127) 7.3.4.6 Administer certificate insue and maintenance (20129) 7.3.4 Manage labor relations (10483) 7.3.7 Manage experience qualifications (20133) 7.3.7 Manage experience qualifications (20132) 7.3.7 Manage experience qualifications (20132) 7.3.7 Manage employee and manage amployee (10520) 7.3.7 Manage employee employee employee (10529) 7.3.7 Manage employee empl			7.3.4.1		, .			7.5.3.1	. •
7.3.4.4 Establish training needs by analysis of required and available skills [10492] 7.3.4.5 Develop, conduct, and manage employee and/ or management training programs [10493] 7.3.4.6 Manage examinations and certifications [20125] 7.3.4.6.1 Lisés with external certification authorities (20126) 7.3.4.6.2 Administer certification tests (20127) 7.3.4.6.3 Appraise experience qualifications (20128) 7.3.4.6.4 Administer certificate issue and maintenance (20129) 7.3.4.6.1 Manage leave of absence (10515) 7.3.4.6.2 Appraise experience qualifications (20127) 7.3.4.6.4 Administer certificate issue and maintenance (20129) 7.3.4.6.1 Manage leave of absence (10515) 7.3.4.6.1 Manage leave of absence (10515) 7.3.4.6.1 Manage leave of absence (10515) 7.3.4.6.1 Manage experience qualifications (20127) 7.3.4.6.1 Manage experience qualifications (20128) 7.3.4.6.1 Manage experience qualifications (20128) 7.3.4.6.1 Manage experience qualifications (20128) 7.6.6.2 Manage ex			7.3.4.2	Define en	nployee competencies (16940)			7.5.3.2	Develop family support systems (10509)
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7.5.1.6 Reward and motivate employees (10503) 7.5.2.1 Deliver employee benefits program (10504) 7.5.2.2 Administer benefit enrollment (10505) 7.5.2.3 Process claims (10506) 7.5.1.6 Reward and motivate employees (10503) 7.5.1.6 Manage union relations (12859) 7.5.2.1 Evaluate union relations internally (12860) 7.5.2.2 Administer benefit enrollment (10505) 7.5.2.3 Process claims (10506) 7.5.2.4 Optimize relations (12862)			7.5.1.5				7.8.2	Conduct	employee engagement surveys (16944)
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7.5.2.3 Process claims (10506) 7.10.3 Optimize relations (12862)					· ·				, , ,
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			7.5.2.4					•	

8.0 Manage Information Technology (IT) (20607)

8.1	Devel	op and m	anage IT customer relationships (20608)				services (20647)	
	8.1.1	Understa	and IT customer needs (20609)			8.1.7.4	Synthesize and distribute IT	
		8.1.1.1	Understand IT customer communities (20610)			performance information (20938)		
		8.1.1.2	Assess IT customer operational capabilities	8.2	Deve	lop and m	anage IT business strategy (20652)	
	8.1.2	Identify I	(20611) T customer transformation needs (20612)		8.2.1	Define bu (20653)	usiness technology and governance strategy	
		8.1.2.1	Understand business requirements for IT capabilities (20613)			8.2.1.1	Build and maintain IT strategic intelligence (20654)	
		8.1.2.2 8.1.2.3	Understand IT landscape(20614) Develop IT visioning (20615)			8.2.1.2	Monitor and map current and emerging technologies (20655)	
		8.1.2.4	Outline IT service expectations (20616)			8.2.1.3	Define and communicate digital transformation	
	8.1.3		communicate IT services (20617)			0.2.1.0	strategy (20656)	
	0.1.0	8.1.3.1	Manage IT customer expectations (20618)			8.2.1.4	Develop IT strategic alignment (20657)	
		8.1.3.2	Define future IT services (20619)			8.2.1.5	Articulate IT alignment principles (20658)	
		8.1.3.3	Determine IT performance indicators (20620)			8.2.1.6	Maintain IT strategic alignment (20659)	
		8.1.3.4	Create IT marketing messages (20621)		8.2.2		IT portfolio strategy (20660)	
					0.2.2	8.2.2.1	Establish and validate IT value criteria (20661)	
	0.4.4	8.1.3.5	Create IT service marketing plan (20622)			8.2.2.2	Determine IT portfolio investment balance	
	8.1.4		T transformation guidance (20623)			0.2.2.2	(20662)	
		8.1.4.1	Develop IT transformation plans (20624)			8.2.2.3	Evaluate proposed IT investment projects	
		8.1.4.2	Collect IT customer requirements (20625)			0.2.2.0	(20663)	
		8.1.4.3	Analyze IT customer requirements (20937)			8.2.2.4	Prioritize IT projects (20664)	
		8.1.4.4	Identify and prioritize IT opportunities (20626)			8.2.2.5	Align IT resources to strategic priorities (20665)	
		8.1.4.5	Facilitate solution design activities (20627)			8.2.2.6	Align IT portfolio to business objectives (20667)	
		8.1.4.6	Prioritize IT outcomes (20628)		022		, ,	
		8.1.4.7	Develop business cases (20629)		8.2.3		nd maintain enterprise architecture (20668)	
		8.1.4.8	Support business case (20630)			8.2.3.1	Create and publish enterprise architecture principles (20670)	
		8.1.4.9	Develop transformation roadmap (20631)			8.2.3.2	Establish and operate enterprise architecture	
	8.1.5	Develop	and manage IT service levels (20632)			0.2.3.2	governance (20671)	
		8.1.5.1	Understand IT service requirements (20633)			8.2.3.3	Research technologies to innovate IT services and solutions (20672)	
		8.1.5.2	Forecast IT service demand (20634)			8.2.3.4	Provide input to definition and prioritization of	
		8.1.5.3	Maintain IT services catalog (20635)			0.2.3.4	IT projects (20673)	
		8.1.5.4	Define service level agreement (20636)		8.2.4	Define IT	service management strategy (20674)	
		8.1.5.5	Maintain IT customer contracts (20637)		0.2	8.2.4.1	Establish IT service management strategy and	
		8.1.5.6	Negotiate and establish service level			0.2	goals (20675)	
		8.1.5.7	agreements (20638) Develop and maintain improvement processes			8.2.4.2	Identify IT service operating and process requirements (20676)	
	0.1.0	N 4	(20640)			8.2.4.3	Define IT service catalog (20677)	
	8.1.6	8.1.6.1	IT customer relationships (20641) Establish relationship management			8.2.4.4	Establish IT service management framework (20678)	
		8.1.6.2	mechanisms (20642) Understand IT customer strategy (20643)			8.2.4.5	Define and implement IT service management	
		8.1.6.3	Understand IT customer environment (20644)			0246	(20679)	
		8.1.6.4	Communicate IT capabilities (20645)			8.2.4.6	Define and deploy support service management process tools and methods (20680)	
		8.1.6.5	Manage IT requirements (20646)			8.2.4.7	•	
	8.1.7		service performance (20648)	0 2 5		Monitor and report IT performance (20681)		
	0.1./	8.1.7.1	Assess SLA compliance (20649)		8.2.5 Control IT management system (20682)			
		8.1.7.2	Triage SLA compliance (20049)			8.2.5.1	Determine IT performance measures (20683)	
		8.1.7.3	Collect feedback about IT products and			8.2.5.2	Define IT control points and assurance procedures governance model (20684)	

		8.2.5.3	Monitor and analyze overall IT performance (20685)		8.3.2.4	Establish mitigation approaches for IT risks (20720)
		8.2.5.4	Monitor and analyze IT financial performance	8.3.3	Control IT	risk, compliance, and security (20721)
		8.2.5.5	(20686) Monitor and analyze IT value and benefits		8.3.3.1	Evaluate enterprise regulatory and compliance obligations (20722)
			(20687)		8.3.3.2	Analyze IT security threat impact (20723)
		8.2.5.6	Optimize IT resource allocation (20688)		8.3.3.3	Create and maintain IT compliance
		8.2.5.7	Manage IT projects and services interdependencies (20689)			requirements (20724)
		8.2.5.8	Report IT service and project performance		8.3.3.4	Create and maintain IT security policies, standards, and procedures (20942)
		8.2.5.9	(20690) Select, deploy, and operate IT performance		8.3.3.5	Develop and deploy risk management training (20725)
	8.2.6	Managa	analytics tools (20692) IT value portfolio (20693)		8.3.3.6	Establish risk reporting capabilities and responsibilities (20726)
	0.2.0	8.2.6.1	Assess performance against IT service and		8.3.3.7	Establish communication standards (20727)
		0.2.0.1	project value criteria (20694)		8.3.3.8	Conduct IT risk and threat assessments (20728)
		8.2.6.2	Quantify value of IT service and project		8.3.3.9	Monitor and manage IT activity risk (20729)
		0.2.0.2	portfolio investments (20695)		8.3.3.10	Identify, supervise and monitor IT risk
		8.2.6.3	Communicate business technology value contribution (20696)			mitigation measures (20730)
		8.2.6.4	Determine and implement IT portfolio	8.3.4		manage IT continuity (20731)
		0.2.0.4	adjustments (20697)		8.3.4.1	Evaluate IT continuity (20732)
	8.2.7	Define ar	nd manage technology innovation (20699)		8.3.4.2	Identify IT continuity gaps (20733)
	0.2.7	8.2.7.1	Establish selection criteria for research		8.3.4.3	Manage IT business continuity (20734)
			initiatives (20700)	8.3.5	Develop a protection	and manage IT security, privacy, and data n (20735)
		8.2.7.2	Analyze emerging technology concepts (20701)		8.3.5.1	Assess IT regulatory and confidentiality
		8.2.7.3	Identify technology concepts and capabilities (20702)		8.3.5.2	requirements and policies (20736) Create IT security, privacy, and data protection
		8.2.7.4	Execute IT research projects (20703)		0.0.0.2	risk governance (20737)
		8.2.7.5	Evaluate IT research project outcomes (20939)		8.3.5.3	Define IT data security and privacy policies,
		8.2.7.6	Identify and promote viable concepts (20704)			standards, and procedures (20738)
		8.2.7.7	Develop and plan IT investment projects (20705)		8.3.5.4	Review and monitor physical and logical IT data security measures (20739)
8.3		•	anage IT resilience and risk (20706)		8.3.5.5	Review and monitor application security controls (20740)
	8.3.1	•	T compliance, risk, and security strategy (20707)		8.3.5.6	Review and monitor IT physical environment
		8.3.1.1	Determine and evaluate IT regulatory and audit requirements (20708)			security controls (20741)
		8.3.1.2 8.3.1.3	Understand business unit risk tolerance (20940) Establish IT risk tolerance (20709)		8.3.5.7	Monitor/analyze network intrusion detection data and resolve threats (20742)
		8.3.1.4	Establish risk tolerance (20703) Establish risk ownership (20710)	8.3.6	Conduct a	and analyze IT compliance assessments (20743)
		8.3.1.5	Establish and maintain risk management roles		8.3.6.1	Conduct projects to enhance IT compliance and remediate risk (20744)
		8.3.1.6	(20711) Establish compliance objectives (20712)		8.3.6.2	Conduct IT compliance control auditing of internal and external services (20745)
		8.3.1.7	Identify systems to support compliance (20941)		8.3.6.3	Perform IT compliance reporting (20746)
		8.3.1.8	Identify and evaluate IT risk (20713)		8.3.6.4	Identify and escalate IT compliance issues and
		8.3.1.9	Evaluate IT-related risks resiliency (20714)		0.3.0.4	remediation requirements (20747)
		8.3.1.10	Create IT risk mitigation strategies and		8.3.6.5	Support external audits and reports (20748)
	0.0.0	ъ .	approaches (20715)	8.3.7	•	and execute IT resilience and continuity
	8.3.2	•	T resilience strategy (20716)		-	s (20749)
		8.3.2.1	Determine IT delivery resiliency (20717)		8.3.7.1	Conduct IT resilience improvement projects
		8.3.2.2	Determine critical IT risks (20718)		0.07.0	(20750)
		8.3.2.3	Prioritize IT risks (20719)		8.3.7.2	Develop, document, and maintain IT business

		8.3.7.3	continuity planning (20751) Implement and enforce change control			8.4.4.4	Implement and administer business information access (20783)
		0.0.7.0	procedures (20752)	8.5	Devel	op and m	anage services/solutions (20784)
		8.3.7.4	Execute recurring IT service provider business		8.5.1	-	service/solution and integration strategy (20785)
		8.3.7.5	continuity (20753) Provide IT resilience training (20754)			8.5.1.1	Determine IT service/solution development (20786)
		8.3.7.6	Execute recurring IT business operations continuity (20755)			8.5.1.2	Define IT service/solution development processes/standards (20787)
	8.3.8	Manage I 8.3.8.1	T user identity and authorization (20756) Support integration of identity and			8.5.1.3	Identify, deploy, and support development methodologies and tools (20788)
			authorization policies (20757)			8.5.1.4	Establish service component criteria (20789)
		8.3.8.2	Manage IT user directory (20758)			8.5.1.5	Understand and select reusable service
		8.3.8.3	Manage IT user authorization (20759)				components (20790)
		8.3.8.4	Manage IT user authentication mechanisms (20760)			8.5.1.6	Maintain service component portfolio (20791)
		8.3.8.5	Audit IT user identity and authorization systems (20761)			8.5.1.7	Establish development standards exception governance (20792)
		8.3.8.6	Respond to IT information security and network		8.5.2	_	service/solution lifecycle planning (20793)
			breaches (20762)			8.5.2.1	Monitor and track emerging technology capabilities (20794)
		8.3.8.7	Conduct penetration testing (20763)			8.5.2.2	Identify IT services/solutions (20795)
		8.3.8.8	Audit integration of user identity and authorization systems (20764)			8.5.2.3	Determine IT service/solution approach (20796)
0.4	Mana					8.5.2.4	Define IT solution lifecycle (20797)
8.4	8.4.1		ation (20765) siness information and analytics strategy			8.5.2.5	Develop IT service/solution "sunset" plans (20798)
		(20766)			8.5.3	Develop	and manage service/solution architecture (20799)
		8.4.1.1	Establish data, information, and analytic objectives (20767)			8.5.3.1	Assess IT application and infrastructure architecture constraints (20800)
		8.4.1.2	Establish data, information, and analytic governance (20768)			8.5.3.2	Assess business constraints on IT service/ solution (20801)
		8.4.1.3	Access IT data/analytic capabilities (20769)			8.5.3.3	Determine IT component integration
	8.4.2		d maintain business information architecture				requirements (20802)
		(20770) 8.4.2.1	Determine enterprise business information			8.5.3.4	Identify opportunities for IT component reuse (20803)
		0122	requirements (20771)			8.5.3.5	Promote adoption of existing service/solution
		8.4.2.2	Define enterprise data models (20772)			0.5.0.0	architecture (20804)
		8.4.2.3	Identify and understand external data sources (20773)			8.5.3.6	Develop and maintain service/solution architectures (20805)
		8.4.2.4	Establish data ownership and stewardship responsibilities (20774)			8.5.3.7	Assess IT service/solution architecture conformance (20806)
		8.4.2.5	Maintain and evolve enterprise data and			8.5.3.8	Manage architectural exceptions (20807)
	0.42	Dofine on	information architecture (20775) d execute business information lifecycle		8.5.4		T service/solution creation and testing (20808)
	8.4.3	planning a	and control (20776)			8.5.4.1	Execute IT service/solution development lifecycle (20809)
		8.4.3.1	Define and maintain enterprise information policies, standards, and procedures (20777)				8.5.4.1.1 Assess and validate IT service/ solution requirements (20810)
		8.4.3.2	Implement and execute data administration responsibilities (20778)				8.5.4.1.2 Create service/solution design (20811)
	8.4.4	Manage b	ousiness information content (20779)				8.5.4.1.3 Build and test IT service/solution
		8.4.4.1	Monitor and control business information (20780)				components (20812) 8.5.4.1.4 Integrate IT components and
		8.4.4.2	Maintain business information feeds and				services (20813)
		8.4.4.3	repositories (20781) Perform internal usage audits (20782)				8.5.4.1.5 Execute IT service/solution validation (20814)

			8.5.4.1.6	Bundle service/solution deployment			8.6.4.4	Confirm i	mplementation completion (20852)
				packaging (20815)			8.6.4.5	Implemen	nt software change/release (20853)
			8.5.4.1.7	Manage service/solution process			8.6.4.6	Perform p	oost-installation testing (20854)
	8.5.5	Perform	service/solu	exceptions (20816) Ition maintenance and testing (20817)			8.6.4.7	Distribute (20855)	e software components network-wide
		8.5.5.1	Execute l' lifecycle (T service/solution maintenance 20818)			8.6.4.8		ange/release implementation success
			8.5.5.1.1	Assess IT remediation (20819)			8.6.4.9		oll-back plan (20857)
			8.5.5.1.2	Modify service/solution design		8.6.5			solution rollout (20858)
				(20820)			8.6.5.1	Conduct I	T training (20859)
			8.5.5.1.3	Perform IT service/solution remediation (20821)			8.6.5.2	•	and distribute service/solution cations (20860)
			8.5.5.1.4	Manage service/solution operations (20822)			8.6.5.3	Support o	organizational changes (20861)
			8.5.5.1.5	Prepare fixed/enhanced service/			8.6.5.4		ollout plans (20862)
				solution packaging (20823)			8.6.5.5		ollout support (20863)
B.6	Deplo	y service	es/solution	ıs (20824)			8.6.5.6		rollout support capabilities (20864)
	8.6.1	-		e service/solution deployment strategy			8.6.5.7	Monitor a	and record rollout issues (20865)
	0.0.1	(20825)	ana managi	s service, solution acproyment strategy	8.7	Creat	e and ma	nage supp	ort services/solutions (20866)
		8.6.1.1	Assess IT	deployment business impact (20826)		8.7.1	Define a	nd establish	n service delivery strategy (20867)
		8.6.1.2	Establish	IT deployment policies (20827)			8.7.1.1		usiness objectives and IT service
		8.6.1.3	Define an	d create deployment procedure				delivery (2	
			workflow	(20828)			8.7.1.2		service delivery portfolio (20869)
		8.6.1.4 8.6.1.5		change/release standards (20829) eployment approval responsibilities			8.7.1.3	Create an (20870)	nd maintain IT service delivery model
		8.6.1.6	(20830)	. ,			8.7.1.4	Determine activities	e IT service delivery locations and (20871)
	8.6.2		-	leployments outcomes (20831)			8.7.1.5		service delivery sourcing strategy
	0.0.2			ution implementation (20832)			0.711.0	(20872)	correct activery occurring entatogy
		8.6.2.1		deployment risk (20833)		8.7.2	Define a	nd develop	service support strategy (20873)
		8.6.2.2	sequence				8.7.2.1	Assess bu	usiness objectives and IT service elivery (20874)
		8.6.2.3		e implementation requirements			8.7.2.2		service support portfolio (20875)
		0.004	(20835)	alian was tasting and saccuracy			8.7.2.3		nd maintain IT support model (20876)
		8.6.2.4	(20836)	align user testing and resources			8.7.2.4		T support service sourcing strategy
		8.6.2.5		T training (20837)			0.7.2.1	(20877)	r capport solving contains
		8.6.2.6	•	plementation communications (20838)			8.7.2.5		support service framework (20878)
		8.6.2.7		T roll-back procedures (20839)			8.7.2.6		ervice support tools and technology
	8.6.3		-	loyment control (20840)				(20879)	
	0.0.0	8.6.3.1		change/release impact (20841)		8.7.3	Plan and	manage se	rvice delivery control (20880)
		8.6.3.2		hange/release compliance (20842)			8.7.3.1	Plan oper	rational activities for IT service
		8.6.3.3		change/release risk (20843)				delivery (2	20881)
		8.6.3.4		ite IT change (20844)				8.7.3.1.1	Schedule service delivery resources
		8.6.3.5		d communicate deployment schedule					(20882)
			(20845)					8.7.3.1.2	Maintain/optimize batch job schedule (20883)
		8.6.3.6		change/release deployment (20846)				8.7.3.1.3	Schedule change/release windows
	0.6.4	8.6.3.7		t IT change/release outcome (20847)					(20884)
	8.6.4			gy solutions (20848)				8.7.3.1.4	
		8.6.4.1	Confirm h (20849)	ardware/software operational status				8.7.3.1.5	archive activities (20885) Balance operational workloads
		8.6.4.2	Confirm o	perational availability (20850)					across available infrastructure
		8.6.4.3	Execute ii	nternal IT implementation plan (20851)					components (20886)

		8.7.3.1.6	Determine specific problem support		8.7.6.2	Run and monitor batch job schedule (20907)
			procedures (20887)		8.7.6.3	Manage service delivery workloads (20908)
8.7.4	(20888)	· ·	e infrastructure resource planning		8.7.6.4	Manage infrastructure performance and capacity (20909)
	8.7.4.1 8.7.4.2	Assess IT	T service delivery strategy (20889) infrastructure business objectives		8.7.6.5	Respond to unplanned operational issues (20910)
	0740	(20890)	IT information bilities -		8.7.6.6	Produce and distribute output media (20911)
	8.7.4.3	(20891)	e ongoing IT infrastructure capabilities		8.7.6.7	Monitor IT infrastructure security (20912)
	8.7.4.4		frastructure change (20892)		8.7.6.8	Manage IT infrastructure/data recovery (20913)
	8.7.4.5		budget IT license usage volumes	8.7.7	Manage	infrastructure resource administration (20914)
		(20893)			8.7.7.1	Manage infrastructure configuration (20915)
8.7.5	Define se 8.7.5.1		ort planning (20895) nd IT support demand patterns (20896)		8.7.7.2	Perform infrastructure component maintenance
	8.7.5.2		e required support resource levels,		0770	(20916)
	0.7.3.2		ilities, and capabilities (20897)		8.7.7.3	Install/configure/upgrade infrastructure components (20917)
	8.7.5.3	Maintain (20898)	service support knowledge repository		8.7.7.4	Maintain IT asset records (20918)
	8.7.5.4		service support learning (20943)		8.7.7.5	Administer IT licenses/user agreements (20919)
	8.7.5.5		cate service support needs (20899)		8.7.7.6	Provide IT infrastructure service and capabilities (20920)
	8.7.5.6	Define IT	escalation mechanisms (20900)	8.7.8	Onerate	IT user support (20921)
	8.7.5.7	•	T service support resources (20901)	0.7.0	8.7.8.1	Triage IT issues/requests (20922)
	8.7.5.8		e with external support providers		8.7.8.2	Provide IT resolution capabilities (20923)
	8.7.5.9	(20902)	agnica delivery incidents (20002)		8.7.8.3	Manage IT user requests (20925)
		_	service delivery incidents (20903)		8.7.8.4	Escalate IT requests (20926)
	8.7.5.10	(20904)	T service support performance		8.7.8.5	Resolve IT issues/requests (20927)
8.7.6	Develop a	and manag	e service delivery operations (20905)		8.7.8.6	Execute IT continuity and recovery action
	8.7.6.1	Operate a	and monitor online systems (20906)			(20928)

9.0 Manage Financial Resources (17058)

9.1	Perfo	rm planni	ing and management accounting (10728)		9.2.2.3	Transmit billing data to customers (10796)
	9.1.1	Perform i	planning/budgeting/forecasting (10738)		9.2.2.4	Post receivable entries (10797)
	0	9.1.1.1	Develop and maintain budget policies and		9.2.2.5	Resolve customer billing inquiries (10798)
		0	procedures (10771)	9.2.3	Process	accounts receivable (AR) (10744)
		9.1.1.2	Prepare periodic budgets and plans (10772)		9.2.3.1	Establish AR policies (10799)
		9.1.1.3	Operationalize and implement plans to achieve		9.2.3.2	Receive/Deposit customer payments (10800)
			budget (20135)		9.2.3.3	Apply cash remittances (10801)
		9.1.1.4	Prepare periodic financial forecasts (10773)		9.2.3.4	Prepare AR reports (10802)
		9.1.1.5	Perform variance analysis against forecasts and		9.2.3.5	Post AR activity to the general ledger (10803)
			budgets (20136)	9.2.4	Manage	and process collections (10745)
		9.1.1.6	Develop project budgets (12865)		9.2.4.1	Establish policies for delinquent accounts
	9.1.2	Perform (cost accounting and control (10739)			(10804)
		9.1.2.1	Perform inventory accounting (10774)		9.2.4.2	Analyze delinquent account balances (10805)
		9.1.2.2	Perform profit center accounting (14057)		9.2.4.3	Correspond/Negotiate with delinquent accounts
		9.1.2.3	Perform cost of sales analysis (10775)			(10806)
		9.1.2.4	Perform product costing (10776)		9.2.4.4	Discuss account resolution with internal parties
		9.1.2.5	Perform variance analysis (10777)			(10807)
		9.1.2.6	Report on profitability (11175)		9.2.4.5	Process adjustments/write off balances (10808)
	9.1.3	Perform (cost management (10740)		9.2.4.6	Perform recovery workout (14007)
		9.1.3.1	Determine key cost drivers (10778)		9.2.4.7	Manage default accounts (14008)
		9.1.3.2	Measure cost drivers (10779)	9.2.5	_	and process adjustments/deductions (10746)
		9.1.3.3	Determine critical activities (10780)		9.2.5.1	Establish policies/procedures for adjustments
		9.1.3.4	Manage asset resource deployment and		0.050	(10809)
			utilization (10781)		9.2.5.2	Analyze adjustments (10810)
	9.1.4	Evaluate	and manage financial performance (10741)		9.2.5.3	Correspond/Negotiate with customer (10811)
		9.1.4.1	Assess customer and product profitability		9.2.5.4	Discuss resolution with internal parties (10812)
			(10782)		9.2.5.5	Prepare chargeback invoices (10813)
		9.1.4.2	Evaluate new products (10783)		9.2.5.6	Process related entries (10814)
		9.1.4.3	,	9.3 Perf	orm gene	ral accounting and reporting (10730)
		9.1.4.4	Optimize customer and product mix (10785)	9.3.1	Manage	policies and procedures (10747)
		9.1.4.5	Track performance of new-customer and		9.3.1.1	Negotiate service-level agreements (10815)
		0146	product strategies (10786)		9.3.1.2	Establish accounting policies (10816)
		9.1.4.6	Prepare activity-based performance measures (10787)		9.3.1.3	Publish accounting policies (20604)
		9.1.4.7	Manage continuous cost improvement (10788)		9.3.1.4	Set and enforce approval limits (10817)
	D (-		•		9.3.1.5	Establish common financial systems (10818)
9.2			ue accounting (10729)	9.3.2	Perform	general accounting (10748)
	9.2.1		customer credit (10742)		9.3.2.1	Maintain chart of accounts (10819)
		9.2.1.1	Establish credit policies (10789)		9.3.2.2	Process journal entries (10820)
		9.2.1.2	Analyze/Approve new account applications		9.3.2.3	Process allocations (10821)
		0.04.0	(10790)		9.3.2.4	Process period end adjustments (10822)
		9.2.1.3	Analyze credit scoring history (14187)		9.3.2.5	Post and reconcile intercompany transactions
		9.2.1.4	Forecast credit scoring requirement (14188)			(10823)
		9.2.1.5	Review existing accounts (10791)		9.3.2.6	Reconcile general ledger accounts (10824)
		9.2.1.6	Produce credit/collection reports (10792)		9.3.2.7	Perform consolidations and process
		9.2.1.7	Reinstate or suspend accounts based on credit		0000	eliminations (10825)
	9.2.2	Invoice e	policies (10793) ustomer (10743)		9.3.2.8	Prepare trial balance (10826)
	J.L.L	9.2.2.1	Maintain customer/product master files (10794)		9.3.2.9	Prepare and post management adjustments (10827)
		9.2.2.1	Generate customer billing data (10795)	9.3.3	Dorform	fixed-asset accounting (10749)
		J.L.L.L	denerate customer billing data (10/30)	უ.ა.ა	i GHOHII	IINGU-asset accountilly (10/43)

		9.3.3.1	Establish fixed-asset policies and procedures (10828)			9.5.1.2	Collect and record employee time worked (10854)
		9.3.3.2	Maintain fixed-asset master data files (10829)			9.5.1.3	Analyze and report paid and unpaid leave (10855)
		9.3.3.3	Process and record fixed-asset additions and retires (10830)			9.5.1.4	Monitor regular, overtime, and other hours
		9.3.3.4	Process and record fixed-asset adjustments, enhancements, revaluations, and transfers			9.5.1.5	(10856) Analyze and report employee utilization (10857)
		0.005	(10831)		9.5.2	_	pay (10754)
		9.3.3.5	Process and record fixed-asset maintenance and repair expenses (10832)			9.5.2.1	Enter employee time worked into payroll system (10858)
		9.3.3.6	Calculate and record depreciation expense (10833)			9.5.2.2	Maintain and administer employee earnings information (10859)
		9.3.3.7	Reconcile fixed-asset ledger (10834)			9.5.2.3	Maintain and administer applicable deductions
		9.3.3.8	Track fixed-assets including physical inventory (10835)			9.5.2.4	(10860) Monitor changes in tax status of employees
		9.3.3.9	Provide fixed-asset data to support tax, statutory, and regulatory reporting (10836)				(10861)
	9.3.4	Porform	financial reporting (10750)			9.5.2.5	Process and distribute payments (10862)
	3.3.4		Prepare business unit financial statements			9.5.2.6	Process and distribute manual checks (10863)
		9.3.4.1	(10837)			9.5.2.7	Process period-end adjustments (10864)
		9.3.4.2	Prepare consolidated financial statements			9.5.2.8	Respond to employee payroll inquiries (10865)
		3.3.4.2	(10838)		9.5.3	Manage	and process payroll taxes (10755)
		9.3.4.3	Perform business unit reporting/review			9.5.3.1	Develop tax plan (14075)
		3.3.4.3	management reports (10839)			9.5.3.2	Manage tax plan (14076)
		9.3.4.4	Perform consolidated reporting/review of cost management reports (10840)			9.5.3.3	Calculate and pay applicable payroll taxes (10866)
		9.3.4.5	Prepare statements for board review (10841)			9.5.3.4	Produce and distribute employee annual tax
		9.3.4.6	Produce quarterly/annual filings and				statements (10867)
		0.0.1.0	shareholder reports (10842)			9.5.3.5	File regulatory payroll tax forms (10868)
		9.3.4.7	Produce regulatory reports (10843)	9.6	Proce	ess accou	nts payable and expense reimbursements
		9.3.4.8	Perform legal and management consolidation (14074)		(1073	3)	
9.4	Mana	ao fivod	asset project accounting (10731)		9.6.1	9.6.1.1	Accounts payable (AP) (10756)
3.4		_	capital planning and project approval (10751)			9.0.1.1	Verify AP pay file with purchase order vendor master file (10869)
		9.4.1.1	Develop capital investment policies and			9.6.1.2	Maintain/Manage electronic commerce (10870)
		9.4.1.2	procedures (10844) Develop and approve capital expenditure plans			9.6.1.3	Audit invoices and key data in AP system (10871)
		J.4.1.Z	and budgets (10845)			9.6.1.4	Approve payments (10872)
		9.4.1.3	Review and approve capital projects and fixed-			9.6.1.5	Process financial accruals and reversals (10873)
		0	asset acquisitions (10846)			9.6.1.6	Process payables taxes (10874)
		9.4.1.4	Conduct financial justification for project			9.6.1.7	Research/Resolve payable exceptions (10875)
							• • •
			approval (10847)			9618	Process navments (10876)
	9.4.2	Perform				9.6.1.8 9.6.1.9	Process payments (10876) Respond to AP inquiries (10877)
	9.4.2	Perform 9.4.2.1	approval (10847)			9.6.1.9	Respond to AP inquiries (10877)
	9.4.2	9.4.2.1	approval (10847) capital project accounting (10752) Create project account codes (10848)			9.6.1.9 9.6.1.10	Respond to AP inquiries (10877) Retain records (10878)
	9.4.2	9.4.2.1 9.4.2.2	approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849)		0.00	9.6.1.9 9.6.1.10 9.6.1.11	Respond to AP inquiries (10877) Retain records (10878) Adjust accounting records (10879)
	9.4.2	9.4.2.1	approval (10847) capital project accounting (10752) Create project account codes (10848)		9.6.2	9.6.1.9 9.6.1.10 9.6.1.11 Process 6	Respond to AP inquiries (10877) Retain records (10878) Adjust accounting records (10879) expense reimbursements (10757)
	9.4.2	9.4.2.1 9.4.2.2	approval (10847) capital project accounting (10752) Create project account codes (10848) Record project-related transactions (10849) Monitor and track capital projects and budget		9.6.2	9.6.1.9 9.6.1.10 9.6.1.11	Respond to AP inquiries (10877) Retain records (10878) Adjust accounting records (10879) expense reimbursements (10757) Establish and communicate expense
	9.4.2	9.4.2.1 9.4.2.2 9.4.2.3	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		9.6.2	9.6.1.9 9.6.1.10 9.6.1.11 Process 6 9.6.2.1	Respond to AP inquiries (10877) Retain records (10878) Adjust accounting records (10879) expense reimbursements (10757) Establish and communicate expense reimbursement policies and approval limits (10880)
0.5		9.4.2.1 9.4.2.2 9.4.2.3 9.4.2.4 9.4.2.5	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)		9.6.2	9.6.1.9 9.6.1.10 9.6.1.11 Process 6 9.6.2.1	Respond to AP inquiries (10877) Retain records (10878) Adjust accounting records (10879) expense reimbursements (10757) Establish and communicate expense reimbursement policies and approval limits (10880) Capture and report relevant tax data (10881)
9.5		9.4.2.1 9.4.2.2 9.4.2.3 9.4.2.4	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)		9.6.2	9.6.1.9 9.6.1.10 9.6.1.11 Process 6 9.6.2.1 9.6.2.2 9.6.2.3	Respond to AP inquiries (10877) Retain records (10878) Adjust accounting records (10879) expense reimbursements (10757) Establish and communicate expense reimbursement policies and approval limits (10880) Capture and report relevant tax data (10881) Approve reimbursements and advances (10882)
9.5		9.4.2.1 9.4.2.2 9.4.2.3 9.4.2.4 9.4.2.5	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)		9.6.2	9.6.1.9 9.6.1.10 9.6.1.11 Process 6 9.6.2.1	Respond to AP inquiries (10877) Retain records (10878) Adjust accounting records (10879) expense reimbursements (10757) Establish and communicate expense reimbursement policies and approval limits (10880) Capture and report relevant tax data (10881)

	9.6.3	Manage	corporate credit cards (20929)		9.7.4.3	Manage I	iquidity (10909)
		9.6.3.1	Establish corporate credit card policies and		9.7.4.4	Manage i	ssuer exposure (10910)
		9.6.3.2	approval limits (20930) Process corporate credit card requests (20931)		9.7.4.5		nd oversee debt and investment ons (10911)
		9.6.3.3 9.6.3.4	Order corporate credit cards (20932)		9.7.4.6	Process a	nd oversee foreign currency
		9.6.3.5	Manage corporate credit card accounts (20933) Approve/Change credit limits (20934)		9.7.4.7	Produce d	lebt and investment accounting
		9.6.3.6	Cancel/Deactivate credit card (20935)				on reports (10913)
9.7	Mana	ge treasi	ury operations (10734)		9.7.4.8	Process a (14210)	nd oversee interest rate transactions
	9.7.1	Manage	treasury policies and procedures (10758)	9.7.5	Monitor	and execute	e risk and hedging transactions
		9.7.1.1	Establish scope and governance of treasury operations (10885)		(11208) 9.7.5.1	Develop r	isk management/hedging strategy
		9.7.1.2	Establish and publish treasury policies (10886)			(12974)	
		9.7.1.3	Develop treasury procedures (10887)		9.7.5.2	Manage i	nterest rate risk (11209)
		9.7.1.4	Monitor treasury procedures (10888)			9.7.5.2.1	Manage interest rate market data
		9.7.1.5	Audit treasury procedures (10889)				(19575)
		9.7.1.6	Revise treasury procedures (10890)			9.7.5.2.2	Determine interest rate exposure for
		9.7.1.7	Develop and confirm internal controls for treasury (10891)			9.7.5.2.3	all markets (19576) Determine interest rate hedge
		9.7.1.8	Define system security requirements (10892)				requirements in accordance with
	9.7.2	Manage	cash (10759)			07524	risk policy (19577)
		9.7.2.1	Manage and reconcile cash positions (10893)		9.7.5.3	9.7.5.2.4	Execute interest rate trades (19578)
		9.7.2.2	Manage cash equivalents (10894)		9.7.0.3	9.7.5.3.1	foreign exchange risk (11210)
		9.7.2.3	Process and oversee electronic fund transfers (EFTs) (10895)				Manage foreign exchange market data (19579)
		9.7.2.4	Develop cash flow forecasts (10896)			9.7.5.3.2	Determine foreign exchange exposure for all currencies (19580)
		9.7.2.5	Manage cash flows (10897)			9.7.5.3.3	Determine foreign exchange hedge
		9.7.2.6	Produce cash management accounting transactions and reports (10898)			0.7.0.0.0	requirements in accordance with risk policy (19581)
		9.7.2.7	Manage and oversee banking relationships (10899)			9.7.5.3.4	Execute foreign exchange trades (19582)
		9.7.2.8	Analyze, negotiate, resolve, and confirm bank fees (10900)			9.7.5.3.5	Manage foreign exchange balance sheet risk (19583)
	9.7.3	Manage	in-house bank accounts (10760)		9.7.5.4	Manage e	exposure risk (11211)
		9.7.3.1	Manage in-house bank accounts for subsidiaries (10901)			9.7.5.4.1	Determine current customer exposures and limit exceptions
		9.7.3.2	Manage and facilitate inter-company borrowing transactions (10902)			9.7.5.4.2	(19584) Resolve customer exposure limit
		9.7.3.3	Manage centralized outgoing payments on behalf of subsidiaries (10903)			9.7.5.4.3	violations (19585) Manage customer collateral (19586)
		9.7.3.4	Manage central incoming payments on behalf of subsidiaries (10904)			9.7.5.4.4	Perform annual customer credit reviews (19587)
		9.7.3.5	Manage internal payments and netting		9.7.5.5	Execute h	edging transactions (20137)
			transactions (10905)			9.7.5.5.1	Measure physical positions (19588)
		9.7.3.6	Calculate interest and fees for in-house bank accounts (10906)			9.7.5.5.2 9.7.5.5.3	Establish hedges (19589) Unwind hedges (19590)
		9.7.3.7	Provide account statements for in-house bank			9.7.5.5.4	Evaluate and refine hedging
	074	Mana==	accounts (10907)			07555	positions (11213) Manitor gradit (11215)
	9.7.4	_	debt and investment (10761)		0750	9.7.5.5.5	Monitor credit (11215)
		9.7.4.1 9.7.4.2	Establish investment policy (14079) Manage financial intermediary relationships		9.7.5.6	reports (1	edge accounting transactions and 1214)
			(10908)	9.7.6	Manage	financial fr	aud/dispute cases (16958)

9.8	Mana	ige intern	al controls (10735)				strategy (10927)		
	9.8.1		n internal controls, policies, and procedures			9.9.1.2 9.9.1.3	Consolidate and optimize total tax plan (10928)		
		(10762)	Establish based of divestors and sudit		0.00		Maintain tax master data (10929)		
		9.8.1.1	Establish board of directors and audit committee (10914)				raxes (10766)		
		9.8.1.2	Define and communicate code of ethics (10915)			9.9.2.1	Perform tax planning/strategy (10930)		
		9.8.1.3	Assign roles and responsibility for internal			9.9.2.2	Prepare tax returns (10931)		
		0.0.1.0	controls (10916)			9.9.2.3	Prepare foreign taxes (10932)		
		9.8.1.4	Define business process objectives and risks			9.9.2.4	Calculate deferred taxes (10933)		
			(11250)			9.9.2.5	Account for taxes (10934)		
		9.8.1.5	Define entity/unit risk tolerances (11251)			9.9.2.6	Monitor tax compliance (10935)		
	9.8.2		controls and monitor compliance with internal			9.9.2.7	Address tax inquiries (10936)		
			policies and procedures (10763)	9.10	Mana	national funds/consolidation (10737)			
		9.8.2.1	Design and implement control activities (10917)		9.10.1	Monitor	international rates (10767)		
		9.8.2.2	Monitor control effectiveness (10918)		9.10.2	Manage	transactions (10768)		
		9.8.2.3	Remediate control deficiencies (10919)		9.10.3	Monitor	currency exposure/hedge currency (10769)		
		9.8.2.4	Create compliance function (10920)		9.10.4	0.4 Report results (10770)			
		9.8.2.5	Operate compliance function (10921)	9.11	Perfo	Perform global trade services (17059)			
		9.8.2.6	Implement and maintain controls-related enabling technologies and tools (10922)	•		•	anctioned party list (14090)		
	9.8.3	Report or	n internal controls compliance (10764)		9.11.2	Control e	exports and imports (14091)		
		9.8.3.1	Report to external auditors (10923)		9.11.3	Classify	products (14092)		
		9.8.3.2	Report to regulators, share-/debt-holders,		9.11.4	Perform	currency conversion (19593)		
			securities exchanges, etc. (10924)		9.11.5	Calculate	e duty (14093)		
		9.8.3.3	Report to third parties (10925)		9.11.6	Commun	icate with customs (14094)		
		9.8.3.4	Report to internal management (10926)		9.11.7	Documer	nt trade (14095)		
9.9	Mana	age taxes	(10736)		9.11.8	Process 1	rade preferences (14096)		
	9.9.1	Develop	tax strategy and plan (10765)		9.11.9	Handle r	estitution (14097)		
		9.9.1.1	Develop foreign, national, state, and local tax		9.11.10	O Prepare 1	etter of credit (14098)		

10.0 Acquire, Construct, and Manage Assets (19207)

10.1	Plan a	and acqu	ire assets (10937)		10.1.4	Manage facilities operations (10949)		
	10.1.1	1.1.1 Develop property strategy and long term vision (10941)				10.1.4.1	Relocate people (10965)	
		10.1.1.1				10.1.4.2	Relocate material and tools (10966)	
			with business strategy (10955) Appraise the external environment (10956) Determine build or buy decision (10957) sility (10943)	10.2	Desig	Design and construct productive assets (19208)		
		10.1.1.2			10.2.1	.1 Manage capital program for productive assets (19209)		
	10.1.2					10.2.1.1	Define capital investment plan (19210)	
		10.1.2.1				10.2.1.2	Monitor capital program (19211)	
		10.1.2.2	Analyze budget (10959)			10.2.1.3	Secure construction financing (19212)	
		10.1.2.3	Select property (10960)		10.2.2	Design a	nd plan asset construction (20139)	
		10.1.2.4	Negotiate terms for facility (10961)			10.2.2.1	Develop construction strategy (19220)	
		10.1.2.5	anage construction or modification to building 1962)			10.2.2.2	Perform construction performance management (11276)	
	10.1.3	Provide v	vorkspace and facilities (10944)			10.2.2.3	Obtain construction permissions (19221)	
		10.1.3.1	Acquire workspace and facilities (10963)			10.2.2.4	Design assets (19222)	
		10.1.3.2	Change fit/form/function of workspace			10.2.2.5	Plan construction resources (19223)	
	andfacilities (10964)			10.2.3	Schedule	e and perform construction work (19229)		

		10.2.3.1	Schedule construction work (19230)			10.3.2.2	Obtain required resources (19247)
		10.2.3.2	Obtain resources (19231)			10.3.2.3	Undertake quality control (19248)
		10.2.3.3	Construct new assets (19232)			10.3.2.4	Update work and asset records (19249)
		10.2.3.4	Augment existing assets (19233)			10.3.2.5	Manage maintenance work safety (19250)
		10.2.3.5	Renew/Replace assets (19234)			10.3.2.6	Define maintenance performance targets
	10.2.4	Manage	asset construction (19224)				(19251)
		10.2.4.1	Monitor work performance (19225)			10.3.2.7	Monitor maintenance performance against
		10.2.4.2	Undertake construction quality control (19226)				targets/contracts (19252)
		10.2.4.3	Create work and asset records (19227)		10.3.3	Perform a	asset maintenance (19253)
		10.2.4.4	Manage safety, security, and access to sites (19228)			10.3.3.1	Perform preventative asset maintenance (10947)
10.3	Maint	tain productive assets (19238)				10.3.3.2	Perform routine asset maintenance (19254)
	10.3.1	Plan asse	n asset maintenance (19239)			10.3.3.3	Perform corrective asset maintenance and
		10.3.1.1	Develop maintenance strategies (19240)			10001	repairs (19255)
		10.3.1.2	Analyze assets and predict maintenance requirements (10967)			10.3.3.4	Identify unplanned maintenance requirements (19256)
		10.3.1.3	Specify maintenance policies (19241)			10.3.3.5	Perform unplanned maintenance and repairs
		10.3.1.4	Integrate preventive maintenance into				(19257)
			operations schedule (10968)	10.4	Dispos	se of asso	ets (10940)
		10.3.1.5	Identify work management tasks & priorities (19242)		10.4.1		exit strategy (10952)
		10.3.1.6	Conduct resource planning (19243)		10.4.2	Decomi	ssion productive assets (19258)
		10.3.1.7	Create work plans (19244)		10.4.3	Perform	sale or trade (10953)
	10.3.2	Manage	asset maintenance (19245)		10.4.4	Perform	abandonment (10954)
		10.3.2.1	Schedule maintenance work (19246)		10.4.5	Perform	waste and hazardous goods management (16970)

II.0 Manage Enterprise Risk, Compliance,Remediation, and Resiliency (16437)

	Kemedia	tion, and Resiliency (16437)				
11.1		rise risk (17060) the enterprise risk framework and policies		11.1.2.4	Verify business unit and functional risk mitigation plans are implemented (16449)	
	(16439) 11.1.1.1	Determine risk tolerance for organization	•	11.1.2.5	Ensure risks and risk mitigation actions are monitored (16450)	
	11.1.1.1	(16440)	•	11.1.2.6	Report on enterprise risk activities (16451)	
	11.1.1.2	Develop and maintain enterprise risk policies and procedures (16441)		11.1.2.7	Coordinate business unit and functional risk management activities (16452)	
	11.1.1.3	Identify and implement enterprise risk management tools (16442)	•	11.1.2.8	Ensure that each business unit/function follows the enterprise risk management process (16453)	
	11.1.1.4	Coordinate the sharing of risk knowledge across the organization (16443)	•	11.1.2.9	Ensure that each business unit/function follows the enterprise risk reporting process (16454)	
	11.1.1.5 Prepare and report enterprise risk to executive		11.1.3	Manage I	business unit and function risk (17462)	
		management and board (16444)	•	11.1.3.1	Identify risks (16456)	
	11.1.2 Oversee a activities	and coordinate enterprise risk management (16445)		11.1.3.2	Assess risks using enterprise risk framework policies and procedures (16457)	
	11.1.2.1	Identify enterprise level risks (16446)	•	11.1.3.3	Develop mitigation plans for risks (16458)	
	11.1.2.2	Assess risks to determine which to mitigate (16447)			11.1.3.3.1 Assess adequacy of insurance coverage (18129)	
	11.1.2.3	Develop risk mitigation and management	•	11.1.3.4	Implement mitigation plans for risks (16459)	
		strategy and integrate with existing		11.1.3.5	Monitor risks (16460)	
		performance management processes (16448)		11.1.3.6	Analyze risk activities and update plans (16461)	

		11.1.3.7	Report on risk activities (16462)				and existing controls (16469)	
11.2	Manage compliance (17467)					11.2.2.7	Compile and communicate compliance	
	11.2.1	Establish	compliance framework and policies (17468)			11 0 0 0	scorecard(s) (19595)	
		11.2.1.1	Develop enterprise compliance policies and procedures (17469)			11.2.2.8	Compile and communicate internal and regulatory compliance reports (19596)	
		11.2.1.2	Implement enterprise compliance activities (17470)			11.2.2.9	Maintain relationships with regulators as appropriate (16470)	
		11.2.1.3	Manage internal audits (14133)	11.3	Mana	age remediation efforts (11185)		
		11.2.1.4	Maintain controls-related technologies and tools (14137)				emediation plans (11201) and confer with experts (11202)	
	11.2.2	.2.2 Manage regulatory compliance (16463)				1.3.3 Identify/dedicate resources (11203)		
		11.2.2.1	Develop regulatory compliance procedures (16464)		11.3.4	Investiga	te legal aspects (11204) te damage cause (11205)	
		11.2.2.2	Identify applicable regulatory requirements (16465)	44.4	11.3.6	Amend o	r create policy (11206)	
		11.2.2.3	Monitor the regulatory environment for	11.4	Mana	ge busino	ess resiliency (11216)	
			changing or emerging regulations (16466)		11.4.1	Develop	the business resilience strategy (11221)	
		11.2.2.4	Assess current compliance position and identify		11.4.2	Perform of	continuous business operations planning (11222)	
			weaknesses or shortfalls therein (16467)		11.4.3	Test cont	tinuous business operations (11223)	
		11.2.2.5	Implement missing or stronger regulatory		11.4.4	Maintain	continuous business operations (11224)	
			compliance controls and policies (16468)		11.4.5		owledge of specific risks across other parts of	
		11.2.2.6	Monitor and test regulatory compliance position			the organ	nization (16471)	

12.0 Manage External Relationships (10012)

12.2.4 Manage lobby activities (11041)

12.3 Manage relations with board of directors (11012)

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restrictions (11063)

12.4.6.3 Administer licensing terms (11064)

- 12.4.6.4 Administer options (11065)
- 12.4.7 Resolve disputes and litigations (11050)
- 12.4.8 Provide legal advice/counseling (11051)
- 12.4.9 Negotiate and document agreements/contracts (11052)

12.5 Manage public relations program (11014)

- 12.5.1 Manage community relations (11066)
- 12.5.2 Manage media relations (11067)
- 12.5.3 Promote political stability (11068)
- 12.5.4 Create press releases (11069)
- 12.5.5 Issue press releases (11070)

13.0 Develop and Manage Business Capabilities (10013)

13.1 Manage business processes (16378) 13.2.1.3 Monitor and control portfolio (16404) 13.2.2 Manage programs (16405) 13.1.1 Establish and maintain process management governance 13.2.2.1 Establish program structure and approach (16406)13.1.1.1 Define and manage governance approach 13.2.2.2 Manage program stakeholders and partners (16380)(16407)13.1.1.2 Establish and maintain process tools and 13.2.2.3 Manage program execution (16408) templates (16381) 13.2.2.4 Review and report program performance 13.1.1.3 Assign and support process ownership (16382) (16409)13.1.1.4 Perform process governance activities (16383) 13.2.3 Manage projects (16410) 13.1.2 Define and manage process frameworks (16384) 13.2.3.1 Establish project scope (16411) 13.1.2.1 Establish and maintain process framework 13.2.3.1.1 Identify project requirements and (163850)objectives (11117) 13.1.2.2 Identify cross-functional processes (16386) 13.2.3.1.2 Identify project resource 13.1.3 Define processes (16387) requirements (16412) 13.1.3.1 Scope processes (16388) 13.2.3.1.3 Assess culture and readiness for 13.1.3.2 Analyze processes (16389) project management approach 13.1.3.2.1 Identify published best practices (111118)(20140)13.2.3.1.4 Create business case and obtain 13.1.3.3 Model and document processes (16390) funding (11120) 13.1.3.4 Publish processes (16391) 13.2.3.1.5 Develop project measures and indicators (11121) 13.1.4 Manage process performance (16392) 13.2.3.2 Identify appropriate project management 13.1.4.1 Provide process training (16393) methodologies (11119) 13.1.4.2 Support process execution (16394) 13.2.3.3 Develop project plans (16413) 13.1.4.3 Measure and report process performance 13.2.3.3.1 Define roles and resources (11123) (16395)13.2.3.3.2 Aquire/secure project resources 13.1.4.3.1 Identify additional metrics as (20142)required (20141) 13.2.3.3.3 Identify specific IT requirements 13.1.5 Improve processes (16396) (11124)13.1.5.1 Identify and select improvement opportunities 13.2.3.3.4 Create training and communication (16397)plans (11125) 13.1.5.2 Manage improvement projects (16398) 13.2.3.3.5 Design recognition and reward 13.1.5.3 Perform continuous improvement activities approaches (11127) (16399)13.2.3.3.6 Design and plan launch of project 13.2 Manage portfolio, program, and project (16400) (11128)

13.2.1 Manage portfolio (16401)

13.2.1.1 Establish portfolio strategy (16402)

13.2.1.2 Define portfolio governance (16403)

13.2.3.4 Execute projects (16414)

13.2.3.3.7 Deploy the project (11129)

13.2.3.4.1 Evaluate impact of project

				management (strategy and projects)				•	s, standards, and measures (17502)
				on measures and outcomes (11131)			13.3.4.5	Assess the	e EQMS performance (17503)
			13.2.3.4.2 13.2.3.4.3				13.3.4.6		vironment and capability for EQMS ent(s) (17504)
			13.2.3.4.4					•	Reward quality excellence (17505)
				involvement (11132)					Create and maintain quality
			13.2.3.4.5	Realign and refresh project management strategy and				13.3.4.6.3	partnerships (17506) Maintain talent capabilities and
				approaches (11133)					competencies (17507)
		13.2.3.5 13.2.3.6		nd report project performance (16417) ects (16418)				13.3.4.6.4	Incorporate EQMS messaging into communication channels (17508)
13.3	Mana			ty (17471)				13.3.4.6.5	Assure independent EQMS
		_	-	uirements (17472)					management access to appropriate
		13.3.1.1		tical-to-quality characteristics (17473)				100100	authority in the organization (17509)
		13.3.1.2		eventive quality activities (17474)				13.3.4.6.6	Transfer proven EQMS methods (17510)
		13.3.1.3	•	uality controls (17475)	12.4	Mone	nge chang	- /1107/I\	(17010)
				Define process steps for controls (or	13.4				
				integration points) (17476)		13.4.1		hange (111	
			13.3.1.3.2	Define sampling plan (17477)			13.4.1.1	Select pro (11138)	cess improvement methodology
			13.3.1.3.3	Identify measurement methods			13.4.1.2		stakeholders (11140)
				(17478)			13.4.1.3		adiness for change (11139)
			13.3.1.3.4				13.4.1.4		nange champion(s) (11141)
		10011	D	(17479)			13.4.1.5	•	gn team (11142)
		13.3.1.4	•	ability to assess compliance with nts (17480)			13.4.1.6		ppe (11143)
		13.3.1.5	-	uality plan (17481)			13.4.1.7		d current state (11144)
	1222		-	e to requirements (17482)			13.4.1.8		ure state (11145)
	10.0.2	13.3.2.1		nst quality plan (17483)			13.4.1.9		rganizational risk analysis (11146)
		10.0.2.1	_	Conduct test and collect data					Itural issues (11147)
			10.0.2.1.1	(17484)					ppacted groups (20143)
			13.3.2.1.2	Record result(s) (17485)				-	degree/extent of impact (20144)
			13.3.2.1.3	Determine disposition of result(s)					accountability for change
				(17486)				_	ent (11148)
		13.3.2.2		sults of tests (17487)				•	arriers to change (11149)
				Assess sample significance (17488)					change enablers (11150)
				Summarize result(s) (17489)			13.4.1.16	,	sources and develop measures
				Recommend actions (17490)		10 / 0	Danisus Ha	(11151)	11125)
	40.00			Decide next steps (17491)		13.4.2	13.4.2.1	e change (1	
	13.3.3	-		mance (17492)					nnection to other initiatives (11152)
		13.3.3.1	-	itential impact (17493)			13.4.2.2	•	hange management plans (11153)
		13.3.3.2		e immediate action(s) (17494)			13.4.2.3	•	raining plan (11154)
		13.3.3.3	-	ot cause(s) (17495)			13.4.2.4	•	ommunication plan (11155)
		13.3.3.4		ective or preventative action (17496)			13.4.2.5	ū	ange champion(s) (20145)
		13.3.3.5		-conformance (17497)			13.4.2.6	•	ewards/incentives plan (11156)
	13.3.4	•		tain the enterprise quality (EQMS) (17498)			13.4.2.7		change adoption metrics (11157) Clarify new roles (11158)
		13.3.4.1	-				13.4.2.8		
		13.3.4.1		e quality strategy (17499) deploy the EQMS scope, targets, and		10 // 0	13.4.2.9	identity bt nt change (1	ıdget/roles (11159)
		10.0.4.2	goals (175			10.4.3	13.4.3.1	_	mmitment for improvement/change
		13.3.4.3	_	ore EQMS processes, controls, and			10.4.3.1	(11160)	illination inprovement/change
			metrics (1				13.4.3.2		er business processes and systems
		13.3.4.4	Develop a	nd document EQMS policies,				(11161)	· ,

		13.4.3.3		ransition to new roles or exit	13.6	6 Measure and benchmark (16436)		enchmark (16436)			
			•	for incumbents (11162)		13.6.1	13.6.1 Create and manage organizational performance st				
		13.4.3.4		hange (11163)			(11071)				
	13.4.4	13.4.3.5 Sustain ir	Report on nprovemen	change (20146) t (11137)			13.6.1.1	Create enterprise measurement systems model (11075)			
		13.4.4.1	Monitor in	mproved process performance (11164)			13.6.1.2	Measure process efficiency (11076)			
		13.4.4.2	Capture a	nd reuse lessons learned from change			13.6.1.3	Measure cost effectiveness (11077)			
			process (1				13.6.1.4	Measure staff productivity (11078)			
		13.4.4.3	Take corre	ective action as necessary (11166)			13.6.1.5	Measure cycle time (11079)			
13.5				erprise-wide knowledge		13.6.2	Benchma	irk performance (11072)			
	mana	gement (H	(M) capal	oility (11073)			13.6.2.1 Conduct performance assessments (11083)				
		13.5.1	Develop K	(M strategy (11095)			13.6.2.2	Develop benchmarking capabilities (11084)			
			13.5.1.1	Develop governance model with roles and accountability (11100)			13.6.2.3	Conduct internal process and external competitive benchmarking (11085)			
			13.5.1.2	Define roles and accountability of			13.6.2.4	Conduct gap analysis (11087)			
				core group versus operating units			13.6.2.5	Establish need for change (11088)			
			10 5 1 0	(11102)		13.6.3	Evaluate	process performance (20147)			
			13.5.1.3 13.5.1.4	Develop funding models (11103) Identify links to key initiatives			13.6.3.1	Establish appropriate performance indicators (metrics) (10270)			
			13.5.1.5	(11104)			13.6.3.2	Establish monitoring frequency (10271)			
			13.3.1.3	Develop core KM methodologies (11105)			13.6.3.3	Collect data (20148)			
			13.5.1.6	Assess IT needs and engage IT			13.6.3.4	Calculate performance measures (10272)			
				function (11106)			13.6.3.5	Identify performance trends (10273)			
			13.5.1.7	Develop training and communication plans (11107)			13.6.3.6	Analyze performance against benchmark data (10274)			
			13.5.1.8	Develop change management			13.6.3.7	Prepare reports (10275)			
				approaches (11108)			13.6.3.8	Develop performance improvement plan (10276)			
			13.5.1.9	Develop strategic measures and indicators (11109)	13.7		_	onmental health and safety (EHS) (11179) se environmental health and safety impacts			
		13.5.2	Assess KI	M capabilities (11096)		10.7.1	(11180)	e environmental health and safety impacts			
			13.5.2.1	Assess maturity of existing KM initiatives (11110)			13.7.1.1	Evaluate environmental impact of products, services, and operations (11186)			
			13.5.2.2	Evaluate existing KM approaches (11111)			13.7.1.2	Conduct health and safety and environmental audits (11187)			
			13.5.2.3	Identify gaps and needs (11112)		13.7.2	Develop	and execute functional EHS program (11181)			
		13.5.3	Design an 13.5.3.1	d implement KM capabilities (20965) Develop new KM approaches			13.7.2.1	Identify regulatory and stakeholder requirements (11188)			
			40.5.0	(11114)			13.7.2.2	Assess future risks and opportunities (11189)			
			13.5.3.2	Design resource model for KM approaches (20966)			13.7.2.3	Create EHS policy (11190)			
			13.5.3.3	Implement new KM approaches			13.7.2.4	Record and manage EHS events (11191)			
			10.0.0.0	(11115)		13.7.3	Train and	l educate functional employees (11182)			
			13.5.3.4	Leverage and enhance IT for KM approaches (20967)			13.7.3.1	Communicate EHS issues to stakeholders and provide support (11192)			
			13.5.3.5	Develop measures (20968)		13.7.4		and manage functional EHS management			
		13.5.4	Evolve an	d sustain KM capabilities (20969)			program				
			13.5.4.1	Enhance/Modify existing KM			13.7.4.1	Manage EHS costs and benefits (11193)			
				approaches (11113)			13.7.4.2	Measure and report EHS performance (11194)			
			13.5.4.2	Sustain awareness and engagement (20970)			13.7.4.3	Implement emergency response program (11196)			
			13.5.4.3	Expand KM infrastructure to meet demand (20971)			13.7.4.4 13.7.4.5	Implement pollution prevention program (11197) Provide employees with EHS support (11195)			

13.8 Develop, Manage, and Deliver Analytics (20959)

- 13.8.1 Develop and manage hypotheses (20960)
- 13.8.2 Collect data (20961)
- 13.8.3 Analyze data (20962)
- 13.8.4 Report on data (20963)
- 13.8.5 Identify remedial actions (20964)



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