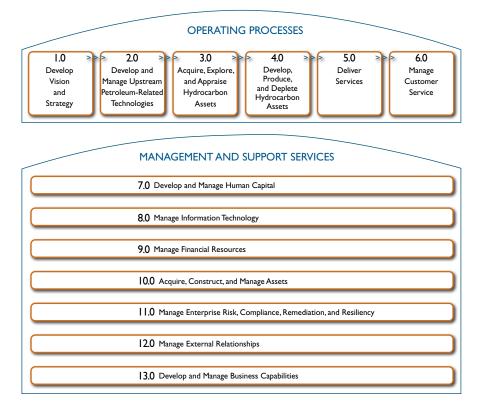
PETROLEUM UPSTREAM PROCESS CLASSIFICATION FRAMEWORK

Version 7.2.2

PETROLEUM UPSTREAM PCF OVERVIEW

Based on the renowned Process Classification Framework® (PCF), The Petroleum Upstream PCF® is customized to define processes used within organizations around the world. Version 7.2.2 of the The Petroleum Upstream PCF® includes changes to make it compliant with the most recent information in Petroleum Upstream 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.





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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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3.1.1.1 Define key value drivers (12986) 3.1.2.1 Identify opportunities/geological prospects (12987) 3.1.2.1 Gather/create opportunities (12988) 3.1.2.2 Acquire data on geological prospect (19414) 3.1.2.3 Screen and prioritize opportunities (12989) 3.1.2.4 Develop key alignment points (12990) 3.1.2.5 Engage key decision makers (12991) 3.1.2.6 Select opportunities to evaluate (12992) 3.1.3 Evaluate opportunities (12993) 3.1.3.1 Form team and dedicate resources (12994) 3.1.3.2 Evaluate data on geological prospect (19415) 3.1.3.3 Conduct technical analysis (12995) 3.1.3.4 Identify and evaluate risks associated with target acquisition and development (19416) 3.1.3.5 Identify sources of value and decide whether to pursue (12997) 3.1.4.1 Confirm potential value of target (12999) 3.1.4.2 Develop pursuit plan (13000) 3.1.4.2 Develop pursuit plan (13000) 3.1.4.3 Gather and analyze data from exploration program (19434) 3.1.4.3 Gather and analyze data from exploration program (19434) 3.1.4.1 Organize asset data (13021)		3.1.1	Strategize	e acquisition (12985)			3.2.7.1	1 1 0
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3.1.3 Evaluate opportunities (12993) 3.1.3.1 Form team and dedicate resources (12994) 3.1.3.2 Evaluate data on geological prospect (19415) 3.1.3.3 Conduct technical analysis (12995) 3.1.3.4 Identify and evaluate risks associated with target acquisition and development (19416) 3.1.3.5 Identify sources of value and develop business case (12996) 3.1.3.6 Determine value and decide whether to pursue (12997) 3.1.4.1 Confirm potential value of target (12999) 3.1.4.2 Develop pursuit plan (13000) 3.1.4.3 Establish prices and possibility of the factors (12901) 3.2.8.5 Cement casing to formation (19431) 3.2.8.6 Perforate casing and stimulate where necessary (19432) 3.2.8.7 Run drill stem test for productivity (19433) 3.2.9 Evaluate exploration wells and delineate geological prospects (13016) 3.2.10 Submit regulatory reports as required (13017) 3.2.11 Handover successful exploration wells for appraisal (13018) 3.3.1 Gather and analyze data from exploration program (19434) 3.3.1.1 Organize asset data (13021)							3.2.8.3	Plug and abandon well if it does not meet
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3.1.4.2 Develop pursuit plan (13000) 3.1.4.3 Establish price and pognition stratogy (13001) 3.1.4.3 Establish price and pognition stratogy (13001)			3.1.4.2 Develop pursuit plan (13000)			3.3.1	Gather ar	nd analyze data from exploration program (19434)
2.1.4.2 Establish price and pogotistion stratogy (12001)								
3.3.1.2 Acquire/process seismic data (13022)			3.1.4.3	Establish price and negotiation strategy (13001)			3.3.1.2	Acquire/process seismic data (13022)
3.1.4.4 Structure deal, launch offer, close contracts 3.1.4.4 Structure and analyze geophysical data (13024)			3.1.4.4				3.3.1.3	•
(13002) 3.3.1.4 Acquire and analyze genchemical data (13025)			0445				3.3.1.4	
3.1.4.5 Finalize agreement and prepare for integration (13003) Solution Finalize agreement and prepare for integration (13026)			3.1.4.5				3.3.1.5	Estimate data uncertainty (13026)
3.1.5 Handover successful opportunities to exploration, 3.3.2 Develop asset model (13027)		315	Handover	•		3.3.2	Develop a	asset model (13027)
development or production (13004) 3.3.2.1 Update surface geological model (13028)		0.1.0		· ·			3.3.2.1	Update surface geological model (13028)
3.2 Explore asset (13005) 3.3.2.2 Update seismic model (13029)	32	Fynlo	-	·			3.3.2.2	Update seismic model (13029)
3.3.2.3 Correlate well data (13030)	0.2						3.3.2.3	Correlate well data (13030)
3.2.1 Develop exploration strategy (13006) 3.3.2.4 Integrate seismic and well model (13031)			•				3.3.2.4	Integrate seismic and well model (13031)
3.2.2 Acquire seismic data (13007) 3.2.3 Process seismic data (13008) 3.3.2.5 Update reservoir model (13032)			•					•
3.3.4 Develop asigmic models (12000)								· · · ·
3.3.E. Perform begin analysis (12010)			•					
3.5.5 Build field development scendarios (15053)				,		3.3.3		
3.2.6.1 Build surface geological model (19418) 3.3.3.1 Build sub-surface development scenarios (13036)		3.2.0					3.3.3.1	·
3.2.6.2 Build subsurface and reservoir model (19419) 3.3.3.2 Build facility infrastructure scenarios (13037)			3.2.6.2	Build subsurface and reservoir model (19419)			3.3.3.2	·
3.2.6.3 Identify missing developmental data (19420) 3.3.3.3 Build operating scenarios (13038)			3.2.6.3	Identify missing developmental data (19420)				•
3.2.6.4 Develop data acquisition plan and costs (19421) 3.3.4 Evaluate economic viability (13040)			3.2.6.4	Develop data acquisition plan and costs (19421)		3.3.4		
3.2.6.5 Develop prospect definition (13013) 3.3.4.1 Evaluate well costs (13041)			3.2.6.5	Develop prospect definition (13013)				·
3.2.6.6 Create exploration plan (19422) 3.3.4.2 Evaluate facility, pipeline and other								i i
3.2.6.7 Conduct cultural and onsite hydrogeological, infrastructure costs (13042)			3.2.6.7	Conduct cultural and onsite hydrogeological,				infrastructure costs (13042)
meteorological archeologic and biological 3.3.4.3 Perform prospect development economic analysis (19423) analysis and alternatives (13043)			meteorological archeologic and biological				3.3.4.3	· · ·
3.2.6.8 Create ready-to-drill inventory (13014) 3.3.4.4 Perform uncertainty analysis (13044)			3.2.6.8	Create ready-to-drill inventory (13014)			3.3.4.4	
3.2.6.9 Obtain stakeholder input (19424) 3.3.5 Propose development plan (13045)			3.2.6.9	Obtain stakeholder input (19424)		3.3.5	Propose o	development plan (13045)

	3.3.5.1 3.3.5.2	Develop proposal (13046) Compile plan (13047)
	3.3.5.3	Obtain corporate approval to proceed (19435)
	3.3.5.4	Submit regulatory reports for asset development (13048)
3.3.6	Handover (13049)	appraisal results to field development team

4.0 Develop, Produce, and Deplete Hydrocarbon Assets (14201)

) 2500	1 1201)				
4.1	Plan f	or and al	ign supply chain resources (10215)			strategie	es (20973)
	4.1.1	Develop 4.1.1.1 4.1.1.2	production and materials strategies (10221) Define field production targets (10229) Define labor and materials policies (10230)		4.2.3		requirements, delivery criteria, performance level losal evaluation criteria (19438) Confirm AFE (authorization for expenditure) for
		4.1.1.3 4.1.1.4 4.1.1.5 4.1.1.6	Define outsourcing policies (10231) Define capital expense policies (10232) Define capacities (10233) Define production network and supply constraints (10234)		4.2.4		specific request (19439) Conduct solicitation for goods and services based on field requirements (19440) Evaluate proposals from vendors (19441) uppliers and develop/maintain contracts (10278)
		4.1.1.7 4.1.1.8 4.1.1.9	Define production process (14193) Define standard operating procedures (19551) Define production workplace layout and infrastructure (14194)			4.2.4.1 4.2.4.2 4.2.4.3 4.2.4.4	Select suppliers (10288) Certify and validate suppliers (10289) Negotiate and establish contracts (10290) Manage contracts (10291)
	4.1.2	Manage 4.1.2.1 4.1.2.2 4.1.2.3 4.1.2.4 4.1.2.5 4.1.2.6 4.1.2.7	demand for products (10222) Develop baseline demand forecasts (10235) Collaborate demand with customers (10236) Develop demand consensus forecast (10237) Determine ability to deliver as scheduled/ required (10238) Monitor activity against demand forecast and revise forecast (10239) Evaluate and revise demand forecasting approach (10240) Measure demand forecast accuracy (10241)		4.2.5 4.2.6	4.2.5.1 4.2.5.2 4.2.5.3 4.2.5.4 4.2.5.5 4.2.5.6 4.2.5.7	Process/Review requisitions (10292) Approve requisitions (10293) Solicit/Track vendor quotes (10294) Create/Distribute purchase orders (10295) Expedite orders and satisfy enquiries, goods and service field requests (10296) Record receipt of goods and services (10297) Research/Resolve order exceptions (10298) suppliers (10280) Monitor/Manage supplier information (10299)
4.2	Procu 4.2.1	Provide s managen 4.2.1.1 4.2.1.2	courcing governance and perform category ment (10277) Develop procurement plan (10281) Clarify purchasing requirements (10282) Establish qualifications for suppliers and			4.2.6.2 4.2.6.3 4.2.6.4	Prepare/Analyze procurement and vendor performance (10300) Support inventory and production processes (10301) Monitor quality of product and services delivered (10302)
		4.2.1.4 4.2.1.5 4.2.1.6 4.2.1.7 4.2.1.8	Establish qualifications for suppliers and ranking system (19436) Develop inventory strategy (10283) Match needs to vendors capabilities (10284) Analyze organization's spend profile (10285) Seek opportunities to improve efficiency and value (10286) Collaborate with suppliers to identify sourcing opportunities (10287)	4.3	Produ 4.3.1	Schedule 4.3.1.1 4.3.1.2 4.3.1.3 4.3.1.4	mble/Test product (10217) e production (10303) Model and simulate plant (19563) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308)
	4.2.2	Develop	sourcing and category management			4.3.1.5	Schedule preventive (planned) maintenance (preventive maintenance orders) (10315)

		4.3.1.6		requested (unplanned) maintenance er cycle) (10316)		4.4.0	and cost				
		4.3.1.7		roduction orders and create lots		4.4.3		egulatory reports for asset development (13095)			
		т.б. г.7	(10309)	roduction orders and create lots	4.5	4.4.4	· · ·				
	4.3.2	Produce/A	Assemble p	roduct (10304)	4.5		Produce asset (13097)				
		4.3.2.1	Manage ra	aw material inventory (10310)		4.5.1		asset depletion strategy (13098)			
		4.3.2.2	Execute de	etailed line schedule (10311)			4.5.1.1	Define short-term and long-term "life of field" strategy (13099)			
		4.3.2.3	Report ma	intenance issues (10319)			4.5.1.2	Define term "operational" plan (13103)			
		4.3.2.4		ective items (10313)		4.5.2		asset (13107)			
		4.3.2.5		nd optimize production process (19566)		4.J.Z	4.5.2.1	Define operation architecture (13108)			
			4.3.2.5.1	Automate and control plant (19567)			4.5.2.1	Define production planning (13109)			
			4.3.2.5.2	Perform advanced process control (19568)			4.5.2.3	Execute production (13110)			
			4.3.2.5.3	Perform real-time optimization (19569)			4.5.2.4	Conduct surveillance (13111)			
			4.3.2.5.4	Manage plant alarms and alerts			4.5.2.5	Optimize production (13112)			
			4.3.2.3.4	(19570)			4.5.2.6	Perform maintenance (13113)			
		4.3.2.6	Assess nr	oduction performance (10314)			4.5.2.7	Manage activities (13121)			
	4.3.3		juality testi	·			4.5.2.8	Evaluate asset (19446)			
	1.0.0	4.3.3.1		test equipment (10318)		4.5.3		production of oil, gas and water (19447)			
		4.3.3.2		esting using the standard testing			4.5.3.1	Establish production data management system and hydrocarbon accounting system (19448)			
		4.3.3.3	Record tes	st results (10375)			4.5.3.2	Measure production of hydrocarbon and			
		4.3.3.4	Track and (12045)	analyze non-conformance trends	trends		4.5.3.3	produced water (19449) Measure injection of water, gas, steam, CO2,			
		4.3.3.5	.3.5 Perform root cause analysis (12046) intain production records and manage lot traceability				1.0.0.0	polymer (19450)			
	4.3.4						4.5.3.4	Measure gas used for power production or flared/vented (19451)			
		4.3.4.1 4.3.4.2		e lot numbering system (10376) e lot use (10377)			4.5.3.5	Measure the chemical composition of the hydrocarbons produced (19452)			
	D I			int use (10377)		4.5.4	Submit r	egulatory reports for asset production (13126)			
4.4		op asset				4.5.5	Transfer	hydrocarbons produced for sale (19453)			
	4.4.1	•		lities (13051)	4.6	Mana	anage logistics and warehousing (10219)				
			•	onceptual design (13052)		4.6.1		ogistics strategy (10338)			
		4.4.1.2	assessme	rcheological and environmental nt along route and reroute		4.0.1	4.6.1.1	Translate customer service requirements into logistics requirements (10343)			
		4 4 1 0		ction system as required (19442)			4.6.1.2	Design logistics network (10344)			
		4.4.1.3	and costs	ont-end engineering design (FEED) (13060)			4.6.1.3	Communicate outsourcing needs (10345)			
		4.4.1.4		etailed design (13068)			4.6.1.4	Develop and maintain delivery service policy			
		4.4.1.5	Negotiate	surface right-of-way access with				(10346)			
		4.4.1.6	Acquire p	rs (19443) ermits for development from			4.6.1.5	Optimize transportation schedules and costs (10347)			
		4.4.1.7		vauthorities (19444) onstruction and precommission			4.6.1.6	Define records keeping and certifications required (19454)			
			(13075)				4.6.1.7	Define key performance measures (10348)			
		4.4.1.8	-	erating permit (19445)			4.6.1.8	Define reverse logistics strategy (16905)			
		4.4.1.9		on and prepare handover (13079)		4.6.2	Plan and	manage inbound material flow (20936)			
	4.4.2	•	subsurface				4.6.2.1	Plan and manage inbound permits for materials			
		4.4.2.1		reliminary well design (13084)			4000	(19455)			
		4.4.2.2	•	letailed well design (13085)			4.6.2.2	Plan inbound material receipts (10349)			
		4.4.2.3	-	vell program (13086)			4.6.2.3	Manage inbound material flow (10350)			
		4.4.2.4		well (13087)			4.6.2.4	Monitor inbound delivery performance (10351)			
		4.4.2.5	Modity w	ell design based on well performance			4.6.2.5	Manage flow of returned products (10352)			

	4.6.2.6 4.6.2.7	Control quality of returned parts (12708) Salvage or repair returned products (20109)			4.6.4.8	Manage materials taken to licensed off-site disposal (19459)		
		4.6.2.7.1 Perform salvage activities (10366) 4.6.2.7.2 Manage repair/refurbishment and		4.6.5	Submit ro (19460)	egulatory reports for materials used and logistics		
		return to customer/stock (14195)	4.7	Exit o	pportunit	ty (13127)		
4.6.3	•	warehousing (10340)		4.7.1	Evaluate	options for disposal of subsurface and surface		
	4.6.3.1	Track inventory deployment (10353)			assets and/or infrastructure (19461)			
	4.6.3.2	Receive, inspect and store inbound deliveries (10354)			4.7.1.1	Evaluate options, costs and detailed plans for plug and abandon (P&A) of wells (19462)		
	4.6.3.3	Track product availability (10355)			4.7.1.2	Evaluate options, costs and detailed plans for		
	4.6.3.4	Pick, pack, and ship product for delivery (10356)			4.7.1.2	future monitoring and land disposition (19500)		
	4.6.3.5	Track inventory accuracy (10357)		4.7.2	Develon	asset exit strategy (13128)		
	4.6.3.6	performance (10358)		4.7.3	Perform a	asset sale or trade (13129)		
	4.6.3.7	Manage physical finished goods inventory		4.7.4	Perform a	asset abandonment (13130)		
		(10359)			4.7.4.1	Submit detailed plans for plug and abandon		
	4.6.3.8	. ,				(P&A) of wells and facilities and remediation of		
4.6.4	Operate a	and optimize outbound transportation (10341)		•		site for regulatory approval (19463)		
	4.6.4.1	•	4.7.4.2		Contract facilities	for plug and abandon (P&A) of wells and (19464)		
	4.6.4.2	Check certification to operate of transporters	4.7.4	.3	Demolish	and secure (13131)		
		(19457)	4.7.4	.4	Restore s	site (13132)		
	4.6.4.3	Issue transport contracts (19458)	4.7.4	.5		site for duration of time required by regulators		
	4.6.4.4	Plan, transport, and deliver outbound product (10360)			(19465) 4.7.4.6	Prepare handover to new operator or		
	4.6.4.5	Track carrier delivery performance (10361)				landowner (13133)		
	4.6.4.6	Manage transportation fleet (10362)		4.7.5	Submit re	egulatory reports for plug and abandon (P&A) and		
	4.6.4.7	Process and audit carrier invoices and documents (10363)			site reme site (142	ediation for approval and release of bond for the 02)		

5.0 Deliver Services (20025)

5.1	Estab (2002		ice delivery governance and strategies			5.2.2.6	Monitor and manage resource capacity and	
	5.1.1	Establish	n service delivery governance (20027)				availability (20056)	
	0.1.1	5.1.1.1	Set up and maintain service delivery		5.2.3	Enable s	ervice delivery resources (12127)	
		0.1.1.1	governance and management system (20028)			5.2.3.1	Develop service delivery training plan (12128)	
		5.1.1.2	Manage service delivery performance (20029)			5.2.3.2	Develop training materials (12129)	
		5.1.1.3	1.1.3 Manage service delivery development and			5.2.3.3	Manage training schedule (12131)	
			direction (20030)			5.2.3.4	Deliver operations training (12132)	
		5.1.1.4	Solicit feedback from customer on service			5.2.3.5	Deliver technical training (12133)	
			delivery satisfaction (20031)			5.2.3.6	Perform skill and capability testing (20057)	
	5.1.2	Develop	service delivery strategies (20032)			5.2.3.7	Evaluate training effectiveness (12135)	
		5.1.2.1	Define service delivery goals (20033)	5.3	Deliv	er servic	e to customer (20058)	
		5.1.2.2 Define labor policies (20034)			5.3.1	.1 Initiate service delivery (20059)		
		5.1.2.3	Evaluate resource availability (20035)			5.3.1.1	Review contract and agreed terms (20060)	
		5.1.2.4	Define service delivery network and supply constraints (20036)			5.3.1.2	Understand customer requirements and define 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)	
	.2 Mana		infrastructure (20039)				5.3.1.6.1 Establish people objectives (20066)	
5.2		ge servi	ce delivery resources (20040)				5.3.1.6.2 Establish engagement rules (20067)	
	5.2.1	Manage	service delivery resource demand (20041)			5.3.1.7	Plan for service delivery (20068)	
		5.2.1.1	Monitor pipeline (20042)		5.3.2	Execute	service delivery (20069)	
		5.2.1.2	Develop baseline forecasts (20043)			5.3.2.1	Analyze environment and customer needs	
		5.2.1.3	Collaborate with customers (20044)				(20070)	
		5.2.1.4	Develop consensus forecast (20045)			5.3.2.2	Define solution (20071)	
		5.2.1.5	Determine availability of skills to deliver on			5.3.2.3	Validate solution (20072)	
			current and forecast customer orders (20046)			5.3.2.4	Identify changes (20073)	
		5.2.1.6	Monitor activity against forecast and revise			5.3.2.5	Obtain approval to proceed (20074)	
		5047	forecast (20047)			5.3.2.6	Make build/buy solution (20075)	
		5.2.1.7	Evaluate and revise forecasting approach			5.3.2.7	Deploy solution (20076)	
		5.2.1.8	(20048)		5.3.3	•	e service delivery (20077)	
	E 2 2		Measure forecast accuracy (20049)			5.3.3.1	Conduct service delivery/project review and	
	5.2.2	5.2.2.1	nd manage resource plan (20050) Define and manage skills taxonomy (20051)			5.3.3.2	evaluate success (20078) Complete/finalize financial management	
		5.2.2.1	Create resource plan (20052)			0.3.3.2	activities (20079)	
		5.2.2.3	Match resource demand with capacity, skills,			5.3.3.3	Confirm delivery according to contract terms	
			and capabilities (20053)				(20080)	
		5.2.2.4	Collaborate with suppliers and partners to			5.3.3.4 5.3.3.5	Release resources (20081) Manage service delivery completion (20082)	
		F 0 0 F	supplement skills and capabilities (20054)			5.3.3.6	Harvest knowledge (20083)	
		5.2.2.5	Identify critical resources and supplier capacity (20055)			5.3.3.7	Archive records and update systems (20084)	

6.0 Manage Customer Service (20085)

Develop customer care/customer service strategy (10378) redressal (19072) Process returns (20094) 6.2.4 Define customer service requirements across the Authorize return (10364) enterprise (20086) 6.2.4.1 6.1.2 Define customer service experience (20087) 6242 Process return and record reason (20095) 6.2.5 Report incidents and risks to regulatory bodies (12840) 6.1.3 Define and manage customer service channel strategy (20088)Service products after sales (12658) 6.1.4 Define customer service policies and procedures (10382) Register products (20605) 6.3.1 6.1.5 Establish target service level for each customer segment 6.3.2 Process warranty claims (12669) (10383)Receive warranty claim (20096) 6.3.2.1 Define warranty offering (20089) 6.1.6 6.3.2.2 Validate warranty claim (12671) 6.1.6.1 Determine and document warranty policies 6.3.2.3 Investigate warranty issues (20097) (16893)6.3.2.3.1 Define issue (20098) 6.1.6.2 Create and manage warranty rules/claim codes 6.3.2.3.2 Schedule field service (12677) for products (16890) 6.3.2.3.3 Request and receive defective part Agree on warranty responsibilities with 6.1.6.3 (12678)suppliers (20090) 6.1.6.4 Define warranty related offerings for customers 6.3.2.3.4 Investigate issue/perform root cause analysis (20099) 6.3.2.3.5 Receive investigation result/ 6.1.6.5 Communicate warranty policies and offerings recommendation for corrective (12673)action (20100) Develop recall strategy (20092) 6.1.7 6.3.2.4 Determine responsible party (20101) Plan and manage customer service contacts (10379) 6.3.2.5 Manage pre-authorizations (20102) Plan and manage customer service work force (10387) 6.3.2.6 Approve or reject warranty claim (12668) 6.2.1.1 Forecast volume of customer service contacts 6.3.2.7 Notify originator of approve/reject decision (10390)(20103)6.2.1.2 Schedule customer service work force (10391) 6.3.2.8 Authorize payment (20104) 6.2.1.3 Track work force utilization (10392) 6.3.2.9 Close claim (20105) 6.2.1.4 Monitor and evaluate quality of customer Reconcile warranty transaction disposition 6.3.2.10 interactions with customer service (12667)representatives (10393) 6.3.3 Manage supplier recovery (20106) Manage customer service problems, requests, and Create supplier recovery claims (20107) 6.3.3.1 inquiries (10388) 6.3.3.2 Negotiate recoveries with suppliers (20108) Receive customer problems, requests, and 6.2.2.1 Service products (10218) inquiries (10394) 634 6.3.4.1 Confirm specific service requirements for 6.2.2.2 Analyze problems, requests, and inquiries individual customer (10320) (13482)6.2.2.3 Resolve customer problems, requests, and 6.3.4.1.1 Process customer request (10324) inquiries (10395) 6.3.4.1.2 Create customer profile (10325) 6.2.2.4 Respond to customer problems, requests, and 6.3.4.1.3 Generate service order (10326) inquiries (10396) Identify and schedule resources to meet service 6.3.4.2 6.2.2.5 Identify and capture upsell/cross-sell requirements (10321) opportunities (16928) 6.3.4.2.1 Create resourcing plan and schedule 6.2.2.6 Deliver opportunity to sales team (16937) (10327)Manage customer complaints (10389) 6.2.3 6.3.4.2.2 Create service order fulfillment 6.2.3.1 Receive customer complaints (10397) schedule (10328) 6.2.3.2 Route customer customer complaints (10398) 6.3.4.3 Provide service to specific customers (10322) 6.2.3.3 Resolve customer complaints (10399) 6.3.4.3.1 Organize daily service order fulfillment schedule (10330) 6.2.3.4 Respond to customer customer complaints (10400)6.3.4.3.2 Execute product repair (10331) 6.2.3.5 Analyze customer complaints and response/ 6.3.4.3.3 Manage service order fulfillment (10332)

		6.3.4.4	•	uality of service (10323)		6.5.2.1	Solicit customer feedback on complaint
			6.3.4.4.1	Identify completed service orders for			handling and resolution (11236)
				feedback (10334)		6.5.2.2	Analyze customer complaint data and identify
			6.3.4.4.2	, ,			improvement opportunities (11237)
			6.3.4.4.3	and service failures (10335) Solicit customer feedback on		6.5.2.3	Identify common customer complaints (11689)
			0.3.4.4.3	services delivered (10336)	6.5.3	Measure	e customer satisfaction with products and services
			6.3.4.4.4			(10403)	
				services delivered (10337)		6.5.3.1	Gather and solicit post-sale customer feedback
6.4	Mana	ge produ	ct recalls	and regulatory audits (20110)			on products and services (11238)
	6.4.1		ecall (20111			6.5.3.2	Solicit post-sale customer feedback on ad effectiveness (11239)
	6.4.2	any haza	rds (20112)	and consequences of occurrence of		6.5.3.3	Solicit customer feedback on cross-channel experience (20117)
	6.4.3	ū		ed communications (20113)		0.5.0.4	•
	6.4.4			eports (20114)		6.5.3.4	Analyze product and service satisfaction data and identify improvement opportunities (11240)
	6.4.5			ecall effectiveness (20115)		0 - 0 -	
	6.4.6	· ·		nation (20116)		6.5.3.5	Provide feedback and insights to appropriate teams (product design/development, marketing,
6.5		ate custo acion (20		ce operations and customer		manufacturing) (11241)	
	6.5.1	Measure	customer s	satisfaction with customer problems,	6.5.4	Evaluate	and manage warranty performance (12672)
			and inquir	ies handling (10401) stomer feedback on customer service		6.5.4.1	Measure customer satisfaction with warranty handling and resolution (20118)
		0.5.1.1	experienc			6.5.4.2	Monitor and report on warranty management
		6.5.1.2	•	sustomer service data and identify		0.0	metrics (12676)
			improvem	nent opportunities (11688)		6.5.4.3	Identify improvement opportunities (20119)
		6.5.1.3		ustomer feedback to product		6.5.4.4	Identify opportunities to eliminate warranty
			managem (18126)	nent on customer service experience			waste (12674)
	6.5.2	Measure	customer s	satisfaction with customer- complaint		6.5.4.5	Investigate fraudulent claims (20120)
		handling	and resolut	tion (10402)	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	7.2.1.7 Manage requisition dates (10452) Recruit/Source candidates (10440)				
		trategies			7.2.2						
	7.1.1	Develop 7.1.1.1	human resources strategy (20958) Identify strategic HR needs (10418)			7.2.2.1	Determine recruitment methods and channels (10453)				
		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 employee referral programs (17047)				
		7.1.1.4	Establish HR measures (10421)			7.2.2.5	7.2.2.5 Manage 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	Manage new hire/re-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	Open job requisitions (10446)			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 er	mployees (10473)			7.5.2.2	Administer benefit enrollment (10505)
		7.3.4.1	Align emp	ployee with organization development			7.5.2.3	Process claims (10506)
			needs (10				7.5.2.4	Perform benefit reconciliation (10507)
		7.3.4.2		nployee competencies (16940)		7.5.3	Manage	employee assistance and retention (10496)
		7.3.4.3	Align lear (10491)	ning programs with competencies			7.5.3.1	Deliver programs to support work/life balance for employees (10508)
		7.3.4.4		training needs by analysis of required able skills (10492)			7.5.3.2 7.5.3.3	Develop family support systems (10509) Review retention and motivation indicators
		7.3.4.5	•	conduct, and manage employee and/ ement training programs (10493)			7.5.3.4	(10510) Review compensation plan (10511)
		7.3.4.6	_	examinations and certifications (20125)		7.5.4		ter payroll (10497)
			7.3.4.6.1	Liaise with external certification	7.6			• • • • • • • • • • • • • • • • • • • •
				authorities (20126)	7.6		•	retire employees (10413)
			7.3.4.6.2	Administer certification tests		7.6.1	-	promotion and demotion process (10512)
				(20127)		7.6.2	_	separation (10513)
			7.3.4.6.3	Appraise experience qualifications		7.6.3 7.6.4	•	retirement (10514) leave of absence (10515)
			70404	(20128)		7.6.5	ū	and implement employee outplacement (10516)
			7.3.4.6.4	Administer certificate issue and maintenance (20129)		7.6.6	-	workforce scheduling (20132)
								WORKIDICE SCHEUIIIIIU (ZULSZI
7.4	Mana	ige emplo	oyee relati	ons (17052)		7.0.0	7.6.6.1	Receive required resources/skills and
7.4	Mana 7.4.1	•	oyee relati labor relati	ons (17052)		7.0.0	7.6.6.1	Receive required resources/skills and capabilities (20133)
7.4		Manage	labor relation	ons (17052)			7.6.6.1 7.6.6.2	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517)
7.4	7.4.1	Manage Manage	labor relation	ons (1 7052) ons (10483)		7.6.7	7.6.6.1 7.6.6.2 Relocate	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055)
7.4	7.4.1 7.4.2	Manage Manage Manage	labor relation collective be labor mana	ons (1 7052) ons (10483) argaining process (10484)	77	7.6.7	7.6.6.1 7.6.6.2 Relocate 7.6.7.1	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055) Manage expatriates (10520)
7.4	7.4.1 7.4.2 7.4.3 7.4.4	Manage Manage Manage Manage	labor relation collective be labor mana employee g	ons (17052) ons (10483) argaining process (10484) gement partnerships (10485)	7.7	7.6.7 Mana	7.6.6.1 7.6.6.2 Relocate 7.6.7.1 age emple	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055) Manage expatriates (10520) oyee information and analytics (17056)
	7.4.1 7.4.2 7.4.3 7.4.4	Manage Manage Manage Manage	labor relation collective be labor mana employee getain employee	ons (17052) ons (10483) argaining process (10484) gement partnerships (10485) rrievances (10531)	7.7	7.6.7 Mana 7.7.1	7.6.6.1 7.6.6.2 Relocate 7.6.7.1 age emple Manage	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055) Manage expatriates (10520) pyee information and analytics (17056) reporting processes (10522)
	7.4.1 7.4.2 7.4.3 7.4.4 Rewa	Manage Manage Manage Manage	labor relation collective be labor mana employee getain employee and manage	ons (17052) ons (10483) argaining process (10484) gement partnerships (10485) prievances (10531) oyees (10412)	7.7	7.6.7 Mana 7.7.1 7.7.2	7.6.6.1 7.6.6.2 Relocate 7.6.7.1 nge emple Manage Manage	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055) Manage expatriates (10520) oyee information and analytics (17056) reporting processes (10522) employee inquiry process (10523)
	7.4.1 7.4.2 7.4.3 7.4.4 Rewa	Manage Manage Manage Manage Manage Develop	labor relation collective by labor mana employee getain employee and manages (10494)	ons (17052) ons (10483) argaining process (10484) gement partnerships (10485) prievances (10531) oyees (10412) e reward, recognition, and motivation alary/compensation structure and	7.7	7.6.7 Mana 7.7.1	7.6.6.1 7.6.6.2 Relocate 7.6.7.1 rige emplo Manage Manage Manage Manage	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055) Manage expatriates (10520) pyee information and analytics (17056) reporting processes (10522)
	7.4.1 7.4.2 7.4.3 7.4.4 Rewa	Manage Manage Manage Manage Manage Develop programs	labor relation collective by labor mana employee getain employee and manages (10494) Develop so plan (1049)	ons (17052) ons (10483) argaining process (10484) gement partnerships (10485) prievances (10531) oyees (10412) e reward, recognition, and motivation alary/compensation structure and	7.7	7.6.7 Mana 7.7.1 7.7.2 7.7.3 7.7.4	7.6.6.1 7.6.6.2 Relocate 7.6.7.1 Manage Manage Manage Manage (10525)	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055) Manage expatriates (10520) oyee information and analytics (17056) reporting processes (10522) employee inquiry process (10523) and maintain employee data (10524) human resource information systems HRIS
	7.4.1 7.4.2 7.4.3 7.4.4 Rewa	Manage Manage Manage Manage ord and re Develop programs 7.5.1.1	labor relation collective by labor mana employee getain employee and manages (10494) Develop so plan (1048) Develop by Develop by Develop by Bovelop by Spirit Collection (1048)	ons (17052) ons (10483) argaining process (10484) gement partnerships (10485) prievances (10531) oyees (10412) e reward, recognition, and motivation alary/compensation structure and alary/compensati	7.7	7.6.7 Mana 7.7.1 7.7.2 7.7.3	7.6.6.1 7.6.6.2 Relocate 7.6.7.1 Ige emple Manage Manage Manage Manage (10525) Develop Develop	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055) Manage expatriates (10520) oyee information and analytics (17056) reporting processes (10522) employee inquiry process (10523) and maintain employee data (10524)
	7.4.1 7.4.2 7.4.3 7.4.4 Rewa	Manage Manage Manage Manage Ind and re Develop programs 7.5.1.1	labor relation collective by labor mana employee getain employee getain employee (10494) Develop so plan (10494) Develop by Perform corewards (10494)	ons (17052) ons (10483) argaining process (10484) gement partnerships (10485) prievances (10531) oyees (10412) e reward, recognition, and motivation alary/compensation structure and o8) benefits and rewards plan (10499) competitive analysis of benefits and 10500) compensation requirements based on benefits, and HR policies (10501)	7.7	7.6.7 Mana 7.7.1 7.7.2 7.7.3 7.7.4 7.7.5	7.6.6.1 7.6.6.2 Relocate 7.6.7.1 Inge emplo Manage Manage Manage (10525) Develop Develop (10527) Manage	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055) Manage expatriates (10520) oyee information and analytics (17056) reporting processes (10522) employee inquiry process (10523) and maintain employee data (10524) human resource information systems HRIS and manage employee metrics (10526) and manage time and attendance systems //Collect employee suggestions and perform
	7.4.1 7.4.2 7.4.3 7.4.4 Rewa	Manage Manage Manage Manage Manage Develop program: 7.5.1.1	labor relation collective by labor mana employee getain employee getain employee (10494) Develop so plan (10494) Develop by Perform corewards (10494)	ons (17052) ons (10483) argaining process (10484) gement partnerships (10485) prievances (10531) oyees (10412) the reward, recognition, and motivation alary/compensation structure and (1088) the nefits and rewards plan (10499) tompetitive analysis of benefits and (10500) tompensation requirements based on benefits, and HR policies (10501) ter compensation and rewards to	7.7	7.6.7 Mana 7.7.1 7.7.2 7.7.3 7.7.4 7.7.5 7.7.6 7.7.7	7.6.6.1 7.6.6.2 Relocate 7.6.7.1 Ige emple Manage Manage Manage (10525) Develop Develop (10527) Manage employe	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055) Manage expatriates (10520) oyee information and analytics (17056) reporting processes (10522) employee inquiry process (10523) and maintain employee data (10524) human resource information systems HRIS and manage employee metrics (10526) and manage time and attendance systems /Collect employee suggestions and perform the research (10530) oyee communication (17057)
	7.4.1 7.4.2 7.4.3 7.4.4 Rewa	Manage Manage Manage Manage Manage Develop programs 7.5.1.1 7.5.1.2 7.5.1.3	labor relation collective by labor mana employee getain employee getain employee (10494) Develop so plan (1048) Administer employee	ons (17052) ons (10483) argaining process (10484) gement partnerships (10485) prievances (10531) oyees (10412) the reward, recognition, and motivation alary/compensation structure and (1088) the nefits and rewards plan (10499) tompetitive analysis of benefits and (10500) tompensation requirements based on benefits, and HR policies (10501) ter compensation and rewards to		7.6.7 Mana 7.7.1 7.7.2 7.7.3 7.7.4 7.7.5 7.7.6 7.7.7	7.6.6.1 7.6.6.2 Relocate 7.6.7.1 Ige emple Manage Manage Manage (10525) Develop Develop (10527) Manage employe age emple	Receive required resources/skills and capabilities (20133) Manage resource deployment (10517) e employees and manage assignments (17055) Manage expatriates (10520) oyee information and analytics (17056) reporting processes (10522) employee inquiry process (10523) and maintain employee data (10524) human resource information systems HRIS and manage employee metrics (10526) and manage time and attendance systems //Collect employee suggestions and perform the research (10530)

7.5.2.1

Deliver employee benefits program (10504)

7.9 Deliver employee communications (10532)

8.0 Manage Information Technology (IT) (20607)

8.1	Devel	op and m	anage IT customer relationships (20608)				services (20647)
	8.1.1	-	nd IT customer needs (20609)			8.1.7.4	Synthesize and distribute IT
	0.1.1	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	nanage IT business strategy (20652)
			(20611)		8.2.1		usiness technology and governance strategy
	8.1.2	•	T customer transformation needs (20612)			(20653)	
		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	Understand IT landscape(20614)			8.2.1.2	Monitor and map current and emerging
		8.1.2.3	Develop IT visioning (20615)				technologies (20655)
	0.4.0	8.1.2.4	Outline IT service expectations (20616)			8.2.1.3	Define and communicate digital transformation strategy (20656)
	8.1.3		communicate IT services (20617)			8.2.1.4	Develop IT strategic alignment (20657)
		8.1.3.1	Manage IT customer expectations (20618)			8.2.1.5	Articulate IT alignment principles (20658)
		8.1.3.2	Define future IT services (20619)			8.2.1.6	Maintain IT strategic alignment (20659)
		8.1.3.3	Determine IT performance indicators (20620)		8.2.2		IT portfolio strategy (20660)
		8.1.3.4	Create IT marketing messages (20621)		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)				
	8.1.4		Transformation guidance (20623)			8.2.2.2	Determine IT portfolio investment balance (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)		8.2.3		nd maintain enterprise architecture (20668)
		8.1.4.7	Develop business cases (20629)		0.2.0	8.2.3.1	Create and publish enterprise architecture
		8.1.4.8	Support business case (20630)			0.2.0	principles (20670)
	015	8.1.4.9	Develop transformation roadmap (20631)			8.2.3.2	Establish and operate enterprise architecture
	8.1.5	-	and manage IT service levels (20632)				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)				IT projects (20673)
		8.1.5.4	Define service level agreement (20636)		8.2.4	Define I7	Service management strategy (20674)
		8.1.5.5	Maintain IT customer contracts (20637)			8.2.4.1	Establish IT service management strategy and
		8.1.5.6	Negotiate and establish service level agreements (20638)				goals (20675)
		8.1.5.7	Develop and maintain improvement processes			8.2.4.2	Identify IT service operating and process requirements (20676)
			(20640)			8.2.4.3	Define IT service catalog (20677)
	8.1.6	_	T customer relationships (20641)			8.2.4.4	Establish IT service management framework
		8.1.6.1	Establish relationship management mechanisms (20642)			8.2.4.5	(20678) Define and implement IT service management
		8.1.6.2	Understand IT customer strategy (20643)				(20679)
		8.1.6.3	Understand IT customer environment (20644)			8.2.4.6	Define and deploy support service management
		8.1.6.4	Communicate IT capabilities (20645)				process tools and methods (20680)
		8.1.6.5	Manage IT requirements (20646)			8.2.4.7	Monitor and report IT performance (20681)
	8.1.7	Analyze s	ervice performance (20648)		8.2.5	Control I	T management system (20682)
		8.1.7.1	Assess SLA compliance (20649)			8.2.5.1	Determine IT performance measures (20683)
		8.1.7.2	Triage SLA compliance issues (20650)			8.2.5.2	Define IT control points and assurance
		8.1.7.3	Collect feedback about IT products and				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)		8.3.3.4	requirements (20724) Create and maintain IT security policies,
		8.2.5.8	Report IT service and project performance			standards, and procedures (20942)
		0.050	(20690)		8.3.3.5	Develop and deploy risk management training
		8.2.5.9	Select, deploy, and operate IT performance analytics tools (20692)		8.3.3.6	(20725) Establish risk reporting capabilities and
	8.2.6	Manage I	T value portfolio (20693)			responsibilities (20726)
		8.2.6.1	Assess performance against IT service and		8.3.3.7	Establish communication standards (20727)
			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)
		8.2.6.3	portfolio investments (20695) Communicate business technology value		8.3.3.10	Identify, supervise and monitor IT risk mitigation measures (20730)
			contribution (20696)	8.3.4	Plan and	manage IT continuity (20731)
		8.2.6.4	Determine and implement IT portfolio		8.3.4.1	Evaluate IT continuity (20732)
	0.07	Б. (;	adjustments (20697)		8.3.4.2	Identify IT continuity gaps (20733)
	8.2.7		nd manage technology innovation (20699)		8.3.4.3	Manage IT business continuity (20734)
		8.2.7.1	Establish selection criteria for research initiatives (20700)	8.3.5	Develop a	and manage IT security, privacy, and data
		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)			requirements and policies (20736)
		8.2.7.4	Execute IT research projects (20703)		8.3.5.2	Create IT security, privacy, and data protection 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)
				8.3.6	Conduct a	and analyze IT compliance assessments (20743)
		8.3.1.4 8.3.1.5	Establish risk ownership (20710) 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)
	0.5.5		approaches (20715)	8.3.7	•	and execute IT resilience and continuity
	8.3.2	•	T resilience strategy (20716)		operation	
		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)		0070	(20750)
		8.3.2.3	Prioritize IT risks (20719)		8.3.7.2	Develop, document, and maintain IT business

			continuity planning (20751)			8.4.4.4	Implement and administer business information
		8.3.7.3	Implement and enforce change control procedures (20752)	8.5	Deve	lop and m	access (20783) 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	ldentify, deploy, and support development methodologies and tools (20788)
		0.0.0.0	authorization policies (20757)			8.5.1.4	Establish service component criteria (20789)
		8.3.8.2 8.3.8.3	Manage IT user directory (20758) Manage IT user authorization (20759)			8.5.1.5	Understand and select reusable service
		8.3.8.4	Manage IT user authorization (20733) Manage IT user authorization mechanisms			0 E 1 C	components (20790)
		0.0.0.1	(20760)			8.5.1.6 8.5.1.7	Maintain service component portfolio (20791) Establish development standards exception
		8.3.8.5	Audit IT user identity and authorization systems (20761)				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 8.3.8.8	Conduct penetration testing (20763) Audit integration of user identity and			8.5.2.2	Identify IT services/solutions (20795)
		0.3.0.0	authorization systems (20764)			8.5.2.3	Determine IT service/solution approach (20796)
8.4	Mana	ae inform	ation (20765)			8.5.2.4	Define IT solution lifecycle (20797)
0.4	8.4.1	Define bu	siness information and analytics strategy			8.5.2.5	Develop IT service/solution "sunset" plans (20798)
		(20766)			8.5.3	Develop a	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	Define an (20770)	d maintain business information architecture			8.5.3.4	requirements (20802) Identify opportunities for IT component reuse
		8.4.2.1	Determine enterprise business information requirements (20771)			8.5.3.5	(20803)
		8.4.2.2	Define enterprise data models (20772)			0.0.3.0	Promote adoption of existing service/solution 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)
		5.0	information architecture (20775)		8.5.4	Execute I	T service/solution creation and testing (20808)
	8.4.3		d execute business information lifecycle 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 repositories (20781)				services (20813)
		8.4.4.3	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 entating,
		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)			9.2.2.5	Review existing accounts (10791)
	·		planning/budgeting/forecasting (10738)			9.2.2.6	Produce credit/collection reports (10792)
	0	9.1.1.1	Develop and maintain budget policies and procedures (10771)			9.2.2.7	Reinstate or suspend accounts based on credit policies (10793)
		9.1.1.2	Prepare periodic budgets and plans (10772)		9.2.3	Invoice o	customer (10743)
		9.1.1.3	Operationalize and implement plans to achieve			9.2.3.1	Maintain customer/product master files (10794)
			budget (20135)			9.2.3.2	Generate customer billing data (10795)
		9.1.1.4	Prepare periodic financial forecasts (10773)			9.2.3.3	Transmit billing data to customers (10796)
		9.1.1.5	Perform variance analysis against forecasts and			9.2.3.4	Post receivable entries (10797)
			budgets (20136)			9.2.3.5	Resolve customer billing inquiries (10798)
	9.1.2		cost accounting and control (10739)		9.2.4	Process	accounts receivable (AR) (10744)
		9.1.2.1	Perform inventory accounting (10774)			9.2.4.1	Establish AR policies (10799)
		9.1.2.2	Perform profit center accounting (14057)			9.2.4.2	Receive/Deposit customer payments (10800)
		9.1.2.3	Perform cost of sales analysis (10775)			9.2.4.3	Apply cash remittances (10801)
		9.1.2.4	Perform product costing (10776)			9.2.4.4	Prepare AR reports (10802)
		9.1.2.5	Perform variance analysis (10777)			9.2.4.5	Post AR activity to the general ledger (10803)
		9.1.2.6	Report on profitability (11175)		9.2.5	Manage	and process collections (10745)
	9.1.3		cost management (10740)			9.2.5.1	Establish policies for delinquent accounts
		9.1.3.1	Determine key cost drivers (10778)				(10804)
		9.1.3.2	Measure cost drivers (10779)			9.2.5.2	Analyze delinquent account balances (10805)
		9.1.3.3	Determine critical activities (10780)			9.2.5.3	Correspond/Negotiate with delinquent accounts
		9.1.3.4	Manage asset resource deployment and utilization (10781)			0054	(10806)
	9.1.4	Evaluate	and manage financial performance (10741)			9.2.5.4	Discuss account resolution with internal parties (10807)
		9.1.4.1	Assess customer and product profitability			9.2.5.5	Process adjustments/write off balances (10808)
			(10782)			9.2.5.6	Perform recovery workout (14007)
		9.1.4.2	Evaluate new products (10783)			9.2.5.7	Manage default accounts (14008)
		9.1.4.3	Perform life cycle costing (10784)		9.2.6	Manage	and process adjustments/deductions (10746)
		9.1.4.4	Optimize customer and product mix (10785)			9.2.6.1	Establish policies/procedures for adjustments
		9.1.4.5	Track performance of new-customer and product strategies (10786)			0262	(10809)
		9.1.4.6	Prepare activity-based performance measures			9.2.6.2 9.2.6.3	Analyze adjustments (10810)
			(10787)			9.2.6.4	Correspond/Negotiate with customer (10811)
		9.1.4.7	Manage continuous cost improvement (10788)			9.2.6.5	Discuss resolution with internal parties (10812) Prepare chargeback invoices (10813)
9.2	Perfo	rm reven	ue accounting (10729)			9.2.6.6	Process related entries (10814)
	9.2.1	Perform I	hydrocarbon accounting (10742)				
	0.2	9.2.1.1	Record daily field production (19473)	9.3		_	al accounting and reporting (10730)
		9.2.1.2	Determine contract quantities of hydrocarbons		9.3.1	U	policies and procedures (10747)
			sold (19474)			9.3.1.1	Negotiate service-level agreements (10815)
		9.2.1.3	Value quantities sold (19475)			9.3.1.2	Establish accounting policies (10816)
		9.2.1.4	Calculate working owner and royalty owner			9.3.1.3	Publish accounting policies (20604)
			interest (19476)			9.3.1.4	Establish common financial systems (10818)
		9.2.1.5	Distribute payments (19477)		9.3.2		general accounting (10748)
	9.2.2	Process	customer credit (10742)			9.3.2.1	Maintain chart of accounts (10819)
		9.2.2.1	Establish credit policies (10789)			9.3.2.2	Process journal entries (10820)
		9.2.2.2	Analyze/Approve new account applications			9.3.2.3	Process allocations (10821)
		0.000	(10790)			9.3.2.4	Process period end adjustments (10822)
		9.2.2.3	Analyze credit scoring history (14187)			9.3.2.5	Post and reconcile intercompany transactions
		9.2.2.4	Forecast credit scoring requirement (14188)				(10823)

		9.3.2.6	Reconcile general ledger accounts (10824)				approval (10847)
		9.3.2.7	Perform consolidations and process		9.4.2	Account	for land and lease assets (19482)
			eliminations (10825)			9.4.2.1	Record and track contract information (19483)
		9.3.2.8	Prepare trial balance (10826)			9.4.2.2	Analyze obligations to meet drilling schedules
		9.3.2.9	Prepare and post management adjustments				(19484)
	9.3.3	Perform	(10827) joint venture accounting (19478)			9.4.2.3	Create and maintain divisions of interest for ownership (19485)
		9.3.3.1	Record jointly controlled assets (19479)		9.4.3	Perform	capital project accounting (10752)
		9.3.3.2	Record venturer's share of expenses and			9.4.3.1	Create project account codes (10848)
			income (19480)			9.4.3.2	Record project-related transactions (10849)
		9.3.3.3	Perform joint interest billing (19481)			9.4.3.3	Monitor and track capital projects and budget
	9.3.4	Perform	fixed-asset accounting (10749)				spending (10850)
		9.3.4.1	Establish fixed-asset policies and procedures			9.4.3.4	Close/capitalize projects (10851)
			(10828)			9.4.3.5	Measure financial returns on completed capital
		9.3.4.2	Maintain fixed-asset master data files (10829)				projects (10852)
		9.3.4.3	Process and record fixed-asset additions and retires (10830)	9.5			II (10732)
		9.3.4.4	Process and record fixed-asset adjustments,		9.5.1	9.5.1.1	me (10753)
			enhancements, revaluations, and transfers			9.5.1.1	Establish policies and procedures (10853) Collect and record employee time worked
		0045	(10831)			9.0.1.2	(10854)
		9.3.4.5	Process and record fixed-asset maintenance and repair expenses (10832)			9.5.1.3	Analyze and report paid and unpaid leave (10855)
		9.3.4.6	Calculate and record depreciation expense (10833)			9.5.1.4	Monitor regular, overtime, and other hours (10856)
		9.3.4.7	Reconcile fixed-asset ledger (10834)			9.5.1.5	Analyze and report employee utilization (10857)
		9.3.4.8	Track fixed-assets including physical inventory (10835)		9.5.2		pay (10754)
		9.3.4.9	Provide fixed-asset data to support tax, statutory, and regulatory reporting (10836)			9.5.2.1	Enter employee time worked into payroll system (10858)
	9.3.5	Perform	financial reporting (10750)			9.5.2.2	Maintain and administer employee earnings
		9.3.5.1	Prepare business unit financial statements				information (10859)
		9.3.5.2	(10837) Prepare consolidated financial statements			9.5.2.3	Maintain and administer applicable deductions (10860)
		9.3.5.3	(10838) Perform business unit reporting/review			9.5.2.4	Monitor changes in tax status of employees (10861)
		0.0.0.0	management reports (10839)			9.5.2.5	Process and distribute payments (10862)
		9.3.5.4	Perform consolidated reporting/review of cost			9.5.2.6	Process and distribute manual checks (10863)
			management reports (10840)			9.5.2.7	Process period-end adjustments (10864)
		9.3.5.5	Prepare statements for board review (10841)			9.5.2.8	Respond to employee payroll inquiries (10865)
		9.3.5.6	Produce quarterly/annual filings and		9.5.3	Manage	and process payroll taxes (10755)
			shareholder reports (10842)			9.5.3.1	Develop tax plan (14075)
		9.3.5.7	Produce regulatory reports (10843)			9.5.3.2	Manage tax plan (14076)
		9.3.5.8	Perform legal and management consolidation (14074			9.5.3.3	Calculate and pay applicable payroll taxes (10866)
9.4		_	asset project accounting (10731)			9.5.3.4	Produce and distribute employee annual tax statements (10867)
	9.4.1	9.4.1.1	capital planning and project approval (10751) Develop capital investment policies and			9.5.3.5	File regulatory payroll tax forms (10868)
			procedures (10844)	9.6	Proce (1073		ınts payable and expense reimbursements
		9.4.1.2	Develop and approve capital expenditure plans and budgets (10845)		9.6.1		accounts payable (AP) (10756)
		9.4.1.3	Review and approve capital projects and fixed- asset acquisitions (10846)		J.U. I	9.6.1.1	Verify AP pay file with purchase order vendor master file (10869)
		9.4.1.4	Conduct financial justification for project			9.6.1.2	Maintain/Manage electronic commerce (10870)

		9.6.1.3	Audit invoices and key data in AP system	9.7.3	Manage	in-house ba	ank accounts (10760)
			(10871)		9.7.3.1	U	n-house bank accounts for
		9.6.1.4	Approve payments (10872)				es (10901)
		9.6.1.5 9.6.1.6	Process financial accruals and reversals (10873) Process payables taxes (10874)		9.7.3.2		and facilitate inter-company borrowing ins (10902)
		9.6.1.7	Research/Resolve payable exceptions (10875)		9.7.3.3		entralized outgoing payments on
		9.6.1.8	Process payments (10876)			-	subsidiaries (10903)
		9.6.1.9	Respond to AP inquiries (10877)		9.7.3.4	Manage o	entral incoming payments on behalf
		9.6.1.10	Retain records (10878)			of subsidi	aries (10904)
		9.6.1.11	Adjust accounting records (10879)		9.7.3.5		nternal payments and netting
	9.6.2		expense reimbursements (10757)				ns (10905)
		9.6.2.1	Establish and communicate expense		9.7.3.6		interest and fees for in-house bank
			reimbursement policies and approval limits (10880)		9.7.3.7		ccount statements for in-house bank
		9.6.2.2	Capture and report relevant tax data (10881)			accounts	•
		9.6.2.3	Approve reimbursements and advances (10882)	9.7.4	_		vestment (10761)
		9.6.2.4	Process reimbursements and advances (10883)		9.7.4.1		investment policy (14079)
		9.6.2.5	Manage personal accounts (10884)		9.7.4.2	Manage t (10908)	inancial intermediary relationships
	9.6.3	Manage	corporate credit cards (20929)		9.7.4.3		iquidity (10909)
		9.6.3.1	Establish corporate credit card policies and		9.7.4.4	ū	ssuer exposure (10910)
			approval limits (20930)		9.7.4.5	-	nd oversee debt and investment
		9.6.3.2	Establish corporate credit card policies and (20931)			transactio	ns (10911)
		9.6.3.3	Order corporate credit cards (20932)		9.7.4.6		nd oversee foreign currency ns (10912)
		9.6.3.4	Manage corporate credit card accounts (20933)		9.7.4.7		ebt and investment accounting
		9.6.3.5	Approve/Change credit limits (20934)		0.7.17		in reports (10913)
		9.6.3.6	Cancel/Deactivate credit card (20935)		9.7.4.8		nd oversee interest rate transactions
9.7	Mana	ge treasu	ry operations (10734)			(14210)	
	9.7.1	Manage	treasury policies and procedures (10758)	9.7.5		and execute	e risk and hedging transactions
		9.7.1.1	Establish scope and governance of treasury		(11208) 9.7.5.1	Dovolon r	ick management/hadging atrategy
			operations (10885)		9.7.3.1	(12974)	isk management/hedging strategy
		9.7.1.2	Establish and publish treasury policies (10886)		9.7.5.2		nterest rate risk (11209)
		9.7.1.3	Develop treasury procedures (10887)			9.7.5.2.1	Manage interest rate market data
		9.7.1.4 9.7.1.5	Monitor treasury procedures (10888)				(19575)
		9.7.1.6	Audit treasury procedures (10889) Revise treasury procedures (10890)			9.7.5.2.2	Determine interest rate exposure for
		9.7.1.7	Develop and confirm internal controls for				all markets (19576)
			treasury (10891)			9.7.5.2.3	Determine interest rate hedge requirements in accordance with
		9.7.1.8	Define system security requirements (10892)				risk policy (19577)
	9.7.2	-	cash (10759)			9.7.5.2.4	Execute interest rate trades (19578)
		9.7.2.1	Manage and reconcile cash positions (10893)		9.7.5.3	Manage f	oreign exchange risk (11210)
		9.7.2.2	Manage cash equivalents (10894)			9.7.5.3.1	Manage foreign exchange market
		9.7.2.3	Process and oversee electronic fund transfers (EFTs) (10895)			9.7.5.3.2	data (19579) Determine foreign exchange
		9.7.2.4	Develop cash flow forecasts (10896)				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)				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)

		9.7.5.4	_	xposure risk (11211)				accounting and regulatory reporting
			9.7.5.4.1	Determine current customer			5	requirements (19486)
				exposures and limit exceptions (19584)		9.8.3	•	n internal controls compliance (10764)
			9.7.5.4.2	Resolve customer exposure limit			9.8.3.1	Report to external auditors (10923)
			3.7.3.4.2	violations (19585)			9.8.3.2	Report to regulators, share-/debt-holders, securities exchanges, etc. (10924)
			9.7.5.4.3	Manage customer collateral (19586)			9.8.3.3	Report to third parties (10925)
			9.7.5.4.4	Perform annual customer credit			9.8.3.4	Report to internal management (10926)
				reviews (19587)	9.9	Mono	ige taxes	
		9.7.5.5	Execute h	edging transactions (20137)	3.3			
			9.7.5.5.1	Measure physical positions (19588)		9.9.1	-	tax strategy and plan (10765)
			9.7.5.5.2	Establish hedges (19589)			9.9.1.1	Develop foreign, national, state, and local tax strategy (10927)
			9.7.5.5.3	Unwind hedges (19590)			9.9.1.2	Consolidate and optimize total tax plan (10928)
			9.7.5.5.4	Evaluate and refine hedging			9.9.1.3	Maintain tax master data (10929)
				positions (11213)		9.9.2		axes (10766)
			9.7.5.5.5	Monitor credit (11215)		0.0.2	9.9.2.1	Perform tax planning/strategy (10930)
		9.7.5.6		edge accounting transactions and			9.9.2.2	Prepare tax returns (10931)
	0.7.6	Managa	reports (1				9.9.2.3	Prepare foreign taxes (10932)
	9.7.6	Ū		aud/dispute cases (16958)			9.9.2.4	Calculate deferred taxes (10933)
9.8		_	al controls				9.9.2.5	Account for taxes (10934)
	9.8.1		internal co	ntrols, policies, and procedures			9.9.2.6	Monitor tax compliance (10935)
		(10762)	F . I !! I !				9.9.2.7	Address tax inquiries (10936)
		9.8.1.1	committee	board of directors and audit e (10914)	9.10	Mana	ige interr	national funds/consolidation (10737)
		9.8.1.2	Define and	d communicate code of ethics (10915)		9.10.1	Monitor	international rates (10767)
		9.8.1.3		es and responsibility for internal		9.10.2	Manage	transactions (10768)
			controls (1			9.10.3	Monitor	currency exposure/hedge currency (10769)
		9.8.1.4	Define but (11250)	siness process objectives and risks		9.10.4	Report re	esults (10770)
		9.8.1.5		tity/unit risk tolerances (11251)	9.11	Perfo	rm global	trade services (17059)
	9.8.2			I monitor compliance with internal		9.11.1	Screen s	anctioned party list (14090)
	0.0.2	•		procedures (10763)		9.11.2	Control e	exports and imports (14091)
		9.8.2.1	Design an	d implement control activities (10917)		9.11.3	Classify	products (14092)
		9.8.2.2	Monitor co	ontrol effectiveness (10918)		9.11.4	Perform	currency conversion (19593)
		9.8.2.3	Remediate	e control deficiencies (10919)		9.11.5	Calculate	e duty (14093)
		9.8.2.4	Create cor	mpliance function (10920)		9.11.6	Commun	icate with customs (14094)
		9.8.2.5	Operate co	ompliance function (10921)		9.11.7	Documer	nt trade (14095)
		9.8.2.6	•	t and maintain controls-related				rade preferences (14096)
				echnologies and tools (10922)				estitution (14097)
		9.8.2.7	Comply w	ith country-specific financial		9.11.1	0 Prepare I	etter of credit (14098)

10.0 Acquire, Construct, and Manage Assets (19207)

10.1	Plan a	ınd acqui	re assets (10937)			10.2.4.3	Create work and asset records (19227)
	10.1.1	Develop p	roperty strategy and long term vision (10941)			10.2.4.4	Manage safety, security, and access to sites
		10.1.1.1	Confirm alignment of property requirements				(19228)
			with business strategy (10955)	10.3	Maint	ain prod	uctive assets (19238)
		10.1.1.2 Appraise the external environment (10956)			10.3.1	Plan asse	et maintenance (19239)
			Determine build or buy decision (10957)			10.3.1.1	Develop maintenance strategies (19240)
	10.1.2	Plan facili				10.3.1.2	Analyze assets and predict maintenance
		10.1.2.1	Design facility (10958)				requirements (10967)
		10.1.2.2	Analyze budget (10959)			10.3.1.3	Specify maintenance policies (19241)
		10.1.2.3	Select property (10960)			10.3.1.4	Integrate preventive maintenance into
		10.1.2.4	Negotiate terms for facility (10961)				operations schedule (10968)
		10.1.2.5	Manage construction or modification to building (10962)			10.3.1.5	Identify work management tasks & priorities (19242)
	10.1.3	Provide w	orkspace and facilities (10944)			10.3.1.6	Conduct resource planning (19243)
		10.1.3.1	Acquire workspace and facilities (10963)			10.3.1.7	Create work plans (19244)
		10.1.3.2	Change fit/form/function of workspace		10.3.2	Manage	asset maintenance (19245)
			andfacilities (10964)			10.3.2.1	Schedule maintenance work (19246)
	10.1.4	-	acilities operations (10949)			10.3.2.2	Obtain required resources (19247)
		10.1.4.1	Relocate people (10965)			10.3.2.3	Undertake quality control (19248)
		10.1.4.2				10.3.2.4	Update work and asset records (19249)
10.2	Desig	n and cor	onstruct productive assets (19208)			10.3.2.5	Manage maintenance work safety (19250)
	10.2.1	Manage of 10.2.1.1	apital program for productive assets (19209) Define capital investment plan (19210)			10.3.2.6	Define maintenance performance targets (19251)
		10.2.1.2	Monitor capital program (19211)			10.3.2.7	Monitor maintenance performance against
			Secure construction financing (19212)				targets/contracts (19252)
	10.2.2		nd plan asset construction (20139)		10.3.3	Perform a	asset maintenance (19253)
		10.2.2.1	Develop construction strategy (19220)			10.3.3.1	Perform preventative asset maintenance
			Perform construction performance management				(10947)
			(11276)			10.3.3.2	Perform routine asset maintenance (19254)
		10.2.2.3	Obtain construction permissions (19221)			10.3.3.3	Perform corrective asset maintenance and
		10.2.2.4	Design assets (19222)			10.3.3.4	repairs (19255) Identify unplanned maintenance requirements
		10.2.2.5	Plan construction resources (19223)			10.3.3.4	(19256)
	10.2.3		and perform construction work (19229)			10.3.3.5	Perform unplanned maintenance and repairs
		10.2.3.1	Schedule construction work (19230)			. 0.0.0.0	(19257)
		10.2.3.2	Obtain resources (19231)	10.4	Dispo	se of ass	ets (10940)
		10.2.3.3 Construct new assets (19232)10.2.3.4 Augment existing assets (19233)10.2.3.5 Renew/Replace assets (19234)			10.4.1		o exit strategy (10952)
					10.4.2		ssion productive assets (19258)
							·
	10.2.4	-	asset construction (19224)		10.4.3		sale or trade (10953)
		10.2.4.1	Monitor work performance (19225)		10.4.4		abandonment (10954)
		10.2.4.2	Undertake construction quality control (19226)		10.4.5	Perform	waste and hazardous goods management (16970)

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

11.1 Manage enterprise risk (17060)

11.1.1 Establish the enterprise risk framework and policies (16439)11.1.1.1 Determine risk tolerance for organization (16440)Develop and maintain enterprise risk policies 11.1.1.2 and procedures (16441) 11.1.1.3 Identify and implement enterprise risk management tools (16442) 11.1.1.4 Coordinate the sharing of risk knowledge across the organization (16443) 11.1.1.5 Prepare and report enterprise risk to executive management and board (16444) 11.1.2 Oversee and coordinate enterprise risk management activities (16445) Identify enterprise level risks (16446) 11.1.2.1 11.1.2.2 Assess risks to determine which to mitigate (16447)11.1.2.3 Develop risk mitigation and management strategy and integrate with existing performance management processes (16448) Verify business unit and functional risk 11.1.2.4 mitigation plans are implemented (16449) Ensure risks and risk mitigation actions are 11.1.2.5 monitored (16450) 11.1.2.6 Report on enterprise risk activities (16451) 11.1.2.7 Coordinate business unit and functional risk management activities (16452) Ensure that each business unit/function follows 11.1.2.8 the enterprise risk management process (16453) 11.1.2.9 Ensure that each business unit/function follows the enterprise risk reporting process (16454) 11.1.3 Manage business unit and function risk (17462) 11.1.3.1 Identify risks (16456) 11.1.3.2 Assess risks using enterprise risk framework policies and procedures (16457) 11.1.3.3 Develop mitigation plans for risks (16458) 11.1.3.3.1 Assess adequacy of insurance coverage (18129) 11.1.3.4 Implement mitigation plans for risks (16459) 11.1.3.5 Monitor risks (16460) 11.1.3.6 Analyze risk activities and update plans (16461) Report on risk activities (16462) 11.1.3.7

11.2 Manage compliance (17467)

11.2.1 Establish compliance framework and policies (17468) Develop enterprise compliance policies and procedures (17469) Implement enterprise compliance activities 11.2.1.2 (17470)Manage internal audits (14133) 11.2.1.3 11.2.1.4 Maintain controls-related technologies and tools (14137) 11.2.2 Manage regulatory compliance (16463) Develop regulatory compliance procedures 11.2.2.1 (16464)11.2.2.2 Identify applicable regulatory requirements (16465)Monitor the regulatory environment for 11.2.2.3 changing or emerging regulations (16466) 11.2.2.4 Assess current compliance position and identify weaknesses or shortfalls therein (16467) 11.2.2.5 Implement missing or stronger regulatory compliance controls and policies (16468) 11.2.2.6 Monitor and test regulatory compliance position and existing controls (16469) 11.2.2.7 Compile and communicate compliance scorecard(s) (19595) 11.2.2.8 Compile and communicate internal and regulatory compliance reports (19596) 11.2.2.9 Maintain relationships with regulators as appropriate (16470) 11.3 Manage remediation efforts (11185) 11.3.1 Create remediation plans (11201) 11.3.2 Contact and confer with experts (11202) 11.3.3 Identify/dedicate resources (11203)

- 11.3.4 Investigate legal aspects (11204)
- 11.3.5 Investigate damage cause (11205)
- 11.3.6 Amend or create policy (11206)

11.4 Manage business resiliency (11216)

- 11.4.1 Develop the business resilience strategy (11221)
- 11.4.2 Perform continuous business operations planning (11222)
- 11.4.3 Test continuous business operations (11223)
- 11.4.4 Maintain continuous business operations (11224)
- 11.4.5 Share knowledge of specific risks across other parts of the organization (16471)

12.0 Manage External Relationships (10012)

12.1 Build investor relationships (11010) 12.4.3 Develop and perform preventive law programs (11046) 12.4.4 Ensure compliance (11047) 12.1.1 Plan, build, and manage lender relations (11035) 12.4.4.1 Plan and initiate compliance program (11053) 12.1.2 Plan, build, and manage analyst relations (11036) 12.4.4.2 Execute compliance program (11054) 12.1.3 Communicate with shareholders (11037) 12.4.5 Manage outside counsel (11048) 12.2 Manage government and industry relationships (11011) 12.4.5.1 Assess problem and determine work 12.2.1 Manage government relations (11038) requirements (11056) 12.2.1.1 Assess relationships (12869) Engage/Retain outside counsel if necessary 12.4.5.2 12.2.1.2 Appoint responsible executives (12870) (11057)12.2.1.3 Monitor relationships (12871) Receive strategy/budget (11058) 12.4.5.3 12.4.5.4 Receive work product and manage/monitor 12.2.1.4 Receive input from internal advisors (12872) case and work performed (11059) 12.2.1.5 Receive input from external advisors (12873) Process payment for legal services (11060) 12.4.5.5 12.2.1.6 Liaise with authorities (12874) 12.4.5.6 Track legal activity/performance (11061) 12.2.2 Manage relations with guasi-government bodies (11039) 12.4.6 Protect intellectual property (11049) 12.2.2.1 Establish relationships with agencies (12875) 12.4.6.1 Manage copyrights, patents, and trademarks 12.2.2.2 Respond to audit inquiries (12876) (11062)12.2.2.3 Maintain documentation of contacts (12877) 12.4.6.2 Maintain intellectual property rights and 12.2.2.4 Plan and manage meetings (12878) restrictions (11063) 12.2.3 Manage relations with trade or industry groups (11040) 12.4.6.3 Administer licensing terms (11064) 12.2.3.1 Evaluate the requirements for strategic 12.4.6.4 Administer options (11065) relationships (12879) 12.4.7 Resolve disputes and litigations (11050) 12.2.3.2 Monitor the success of the partnerships (12880) 12.4.8 Provide legal advice/counseling (11051) 12.2.3.3 Extend or change the relationships (12881) 12.4.9 Negotiate and document agreements/contracts (11052) 12.2.4 Manage lobby activities (11041) 12.5 Manage public relations program (11014) 12.3 Manage relations with board of directors (11012) 12.5.1 Manage community relations (11066) 12.3.1 Report financial results (11042) 12.5.2 Facilitate public information and education (19489) 12.3.2 Report audit findings (11043) 12.5.3 Manage media relations (11067) 12.4 Manage legal and ethical issues (11013) 12.5.4 Promote political stability (11068) 12.4.1 Create ethics policies (11044) 12.5.5 Create press releases (11069) 12.4.2 Manage corporate governance policies (11045) 12.5.6 Issue press releases (11070)

13.0 Develop and Manage Business Capabilities (10013)

13.1	Mana	ge busine	ess processes (16378)					objectives (11117)
	13.1.1	Establish (16379)	and maintain process management governance				13.2.3.1.2	Identify project resource requirements (16412)
		13.1.1.1	Define and manage governance approach (16380)				13.2.3.1.3	Assess culture and readiness for project management approach (11118)
		13.1.1.2 13.1.1.3	Establish and maintain process tools and templates (16381) Assign and support process ownership (16382)				13.2.3.1.4	
	10 1 0	13.1.1.4	Perform process governance activities (16383)				13.2.3.1.5	
	13.1.2	13.1.2.1	nd manage process frameworks (16384) Establish and maintain process framework (163850)			13.2.3.2		ppropriate project management ogies (11119)
		13.1.2.2	Identify cross-functional processes (16386)			13.2.3.3	Develop p	roject plans (16413)
	1010		·				13.2.3.3.1	Define roles and resources (11123)
	13.1.3	•	ocesses (16387)				13.2.3.3.2	Aquire/secure project resources
		13.1.3.1	Scope processes (16388)					(20142)
		13.1.3.2	Analyze processes (16389) 13.1.3.2.1 Identify published best practices (20140)				13.2.3.3.3	Identify specific IT requirements (11124)
		13.1.3.3	Model and document processes (16390)				13.2.3.3.4	Create training and communication plans (11125)
	13 1 <i>/</i> l	13.1.3.4 Manage	Publish processes (16391) process performance (16392)				13.2.3.3.5	Design recognition and reward
	10.1.7	13.1.4.1	Provide process training (16393)				10 0 0 0 0	approaches (11127)
		13.1.4.2	Support process execution (16394)				13.2.3.3.6	Design and plan launch of project (11128)
		13.1.4.3	Measure and report process performance				13.2.3.2.7	Deploy the project (11129)
		10.11.1.0	(16395)			13.2.3.4		rojects (16414)
			13.1.4.3.1 Identify additional metrics as			10.2.0.4	-	Evaluate impact of project
	13.1.5	Improve :	required (20141) processes (16396)				10.2.3.4.1	management (strategy and projects) on measures and outcomes (11131)
		13.1.5.1	Identify and select improvement opportunities				13 2 3 4 2	Report the status of project (16415)
			(16397)					Manage project scope (16416)
		13.1.5.2	Manage improvement projects (16398)					Promote and sustain activity and
		13.1.5.3	Perform continuous improvement activities (16399)					involvement (11132) Realign and refresh project
13.2	Mana	ge portfo	lio, program, and project (16400)				10.2.0.4.0	management strategy and
	13 2 1	Manage	portfolio (16401)					approaches (11133)
	10.2.1	13.2.1.1	Establish portfolio strategy (16402)			13.2.3.4	Review ar	nd report project performance (16417)
		13.2.1.2	Define portfolio governance (16403)			13.2.3.6	Close proj	ects (16418)
		13.2.1.3	Monitor and control portfolio (16404)	13.3	Mana	ige enter _l	orise quali	ty (17471)
	13 2 2		programs (16405)		13.3.1	Establish	quality req	uirements (17472)
	10.2.2	13.2.2.1	Establish program structure and approach		10.0.1	13.3.1.1		tical-to-quality characteristics (17473)
			(16406)			13.3.1.2		eventive quality activities (17474)
		13.2.2.2	Manage program stakeholders and partners (16407)			13.3.1.3		uality controls (17475) Define process steps for controls (or
		13.2.2.3	Manage program execution (16408)					integration points) (17476)
		13.2.2.4	Review and report program performance				13.3.1.3.2	Define sampling plan (17477)
			(16409)				13.3.1.3.3	Identify measurement methods
	13.2.3		projects (16410)					(17478)
		13.2.3.1	Establish project scope (16411)				13.3.1.3.4	Define required competencies
			13.2.3.1.1 Identify project requirements and					(17479)

		10.0.1.1		1205 4 12 20			40.44.5	- ·	(44440)	
		13.3.1.4 Prove capability to assess compliance with				13.4.1.5		gn team (11142)		
		requirements (17480)					13.4.1.6		ope (11143)	
	1000	13.3.1.5	. , , , , , , , , , , , , , , , , , , ,				13.4.1.7			
	13.3.2		performance to requirements (17482)				13.4.1.8		ture state (11145)	
		13.3.2.1	_	nst quality plan (17483)			13.4.1.9		organizational risk analysis (11146)	
			13.3.2.1.1	Conduct test and collect data					ıltural issues (11147)	
			100010	(17484)				•	npacted groups (20143)	
				Record result(s) (17485)					e degree/extent of impact (20144)	
				Determine disposition of result(s) (17486)			13.4.1.13		accountability for change ent (11148)	
		13.3.2.2		sults of tests (17487)			13.4.1.14	Identify b	arriers to change (11149)	
				Assess sample significance (17488)			13.4.1.15	Determin	e change enablers (11150)	
				Summarize result(s) (17489)			13.4.1.16	Identify re	esources and develop measures	
			13.3.2.2.3	Recommend actions (17490)				(11151)		
			13.3.2.2.4	Decide next steps (17491)		13.4.2	Design th	e change (11135)	
	13.3.3	Manage	non-conforn	nance (17492)			13.4.2.1	Assess co	onnection to other initiatives (11152)	
		13.3.3.1	Assess po	tential impact (17493)			13.4.2.2	Develop o	change management plans (11153)	
		13.3.3.2	Determine	e immediate action(s) (17494)			13.4.2.3	Develop t	raining plan (11154)	
		13.3.3.3	Identify ro	ot cause(s) (17495)			13.4.2.4	Develop o	communication plan (11155)	
		13.3.3.4	Take corre	ective or preventative action (17496)			13.4.2.5	Assign ch	ange champion(s) (20145)	
		13.3.3.5	Close non-	-conformance (17497)			13.4.2.6	Develop r	ewards/incentives plan (11156)	
	13.3.4	•		tain the enterprise quality			13.4.2.7	Establish	change adoption metrics (11157)	
		-	agement system (EQMS) (17498)				13.4.2.8	Establish/Clarify new roles (11158)		
		13.3.4.1		e quality strategy (17499)			13.4.2.9	Identify b	udget/roles (11159)	
		13.3.4.2		deploy the EQMS scope, targets, and		13.4.3	Implemer	nt change (11136)	
		13.3.4.3	• • • • • • • • • • • • • • • • • • • •				13.4.3.1	Create co (11160)	mmitment for improvement/change	
							13.4.3.2 13.4.3.3	Reengineer business processes and systems (11161) Support transition to new roles or exit		
		13.3.4.4								
		10045								
		13.3.4.5						_	s for incumbents (11162)	
		13.3.4.6		Create environment and capability for EQMS improvement(s) (17504)			13.4.3.4		onitor change (11163)	
			•	Reward quality excellence (17505)		10.4.4		-	change (20146)	
				Create and maintain quality		13.4.4	Sustain in			
			13.3.4.0.2	partnerships (17506)			13.4.4.1		mproved process performance (11164)	
			13.3.4.6.3	·			13.4.4.2	process (nd reuse lessons learned from change	
				competencies (17507)			13.4.4.3	•	ective action as necessary (11166)	
			13.3.4.6.4 Incorporate FOMS massaging into		D I		nanage enterprise-wide knowledge			
				communication channels (17508)	13.5			_		
			13.3.4.6.5	Assure independent EQMS		munu	_	KM) capability (11073)		
				management access to appropriate			13.5.1	•	(M strategy (11095)	
				authority in the organization (17509)				13.5.1.1	Develop governance model with roles and accountability (11100)	
			13.3.4.6.6	Transfer proven EQMS methods				13.5.1.2	Define roles and accountability of	
13.4	Manag	(17510) Manage change (11074)						13.3.1.2	core group versus operating units (11102)	
	13.4.1	Plan for change (11134)						13.5.1.3	Develop funding models (11103)	
		13.4.1.1	_	cess improvement methodology				13.5.1.4	Identify links to key initiatives	
			(11138)						(11104)	
		13.4.1.2	3.4.1.2 Determine stakeholders (11140)					13.5.1.5	Develop core KM methodologies	
		13.4.1.3	Assess rea	adiness for change (11139)					(11105)	
		13.4.1.4	Identify ch	nange champion(s) (11141)				13.5.1.6	Assess IT needs and engage IT	

				function (11106)			13.6.3.7	Prepare reports (10275)	
			13.5.1.7	Develop training and communication			13.6.3.8	Develop performance improvement plan (10276)	
				plans (11107)	13.7	Mana	Manage environmental health and safety (EHS) (1		
			13.5.1.8	Develop change management approaches (11108)		13.7.1	Determine (11180)	e environmental health and safety impacts	
			13.5.1.9	Develop strategic measures and indicators (11109)			13.7.1.1	Evaluate environmental impact of products,	
		13.5.2	Assess KN	Л capabilities (11096)			10710	services, and operations (11186)	
			13.5.2.1	Assess maturity of existing KM initiatives (11110)			13.7.1.2	Conduct health and safety and environmental audits (11187)	
			13.5.2.2	Evaluate existing KM approaches (11111)		13.7.2	Establish resources		
			13.5.2.3	Identify gaps and needs (11112)			13.7.2.1	Establish supporting agreements with local,	
		13.5.3	Design an	d implement KM capabilities (20965)				regional and specialized for EHS support	
			13.5.3.1	Develop new KM approaches		1070	Dovolon	(19491)	
				(11114)		13.7.3		and execute functional EHS program (11181)	
			13.5.3.2	Design resource model for KM approaches (20966)			13.7.3.1	Identify regulatory and stakeholder requirements (11188)	
			13.5.3.3	Implement new KM approaches			13.7.3.2	Assess future risks and opportunities (11189)	
			13.5.3.4	(11115) Leverage and enhance IT for KM			13.7.3.3	Create EHS policy, practices and procedures (11190)	
				approaches (20967)			13.7.3.4	Record and manage EHS events (11191)	
			13.5.3.5	Develop measures (20968)			13.7.3.5	Manage EHS documents and records (19492)	
		13.5.4		d sustain KM capabilities (20969)			13.7.3.6	Develop and manage EHS communications (19493)	
			13.5.4.1	Enhance/Modify existing KM approaches (11113)			13.7.3.7	Establish and manage the management of	
			13.5.4.2	Sustain awareness and engagement			13.7.3.7	change (MoC) process for EHS (19494)	
				(20970)		13.7.4	Train and	educate functional employees and responders	
			13.5.4.3	Expand KM infrastructure to meet			(11182)	, i i	
13.6	Meası	ire and b	enchmark	demand (20971)			13.7.4.1	Communicate EHS issues to stakeholders and provide support (11192)	
		Create and manage organizational performance strategy (11071)					13.7.4.2	Manage site specific and general training (19495)	
		13.6.1.1	Create enterprise measurement systems model				13.7.4.3	Manage certification process (19496)	
	13.6.1.2 N		(11075) Measure process efficiency (11076) Measure cost effectiveness (11077)			13.7.5	.7.5 Monitor and manage functional EHS management program (11183)		
							13.7.5.1	Manage EHS costs and benefits (11193)	
		13.6.1.4		staff productivity (11078)			13.7.5.2	Measure and report EHS performance (11194)	
		13.6.1.5		cycle time (11079)			13.7.5.3	Implement emergency response program	
	13.6.2	3.6.2 Benchmark performance (11072)				1075	(11196)		
		13.6.2.1	•	erformance assessments (11083)			13.7.5.4	Implement pollution prevention program (11197)	
		13.6.2.2	Develop b	enchmarking capabilities (11084)			1375/11	Monitor emissions (19497)	
		13.6.2.3		nternal process and external ve benchmarking (11085)			13.7.5.5	Implement Permit to Work (PtW) system	
		13.6.2.4	Conduct g	ap analysis (11087)			13.7.5.6	(19498) Implement EHS contractor and visitor access	
		13.6.2.5		need for change (11088)			13.7.3.0	system (19499)	
	13.6.3		e process performance (20147)				13.7.5.7	Provide employees /families with EHS support	
		13.6.3.1	Establish (metrics) (appropriate performance indicators 10270)	12 0	Dovol	(11195)		
		13.6.3.2		monitoring frequency (10271)	13.0		Develop, Manage, and Deliver Analytics (20959)		
		13.6.3.3	Collect da				13.8.1 Develop and manage hypotheses (20960)		
		13.6.3.4		performance measures (10272)		13.8.2 Collect data (20961)			
		13.6.3.5		erformance trends (10273)		13.8.3 Analyze data (20962)			
		13.6.3.6	Analyze p (10274)	erformance against benchmark data		13.8.4 Report on data (20963) 13.8.5 Identify remedial actions (20964)			



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