PHARMACEUTICAL PROCESS CLASSIFICATION FRAMEWORKSM

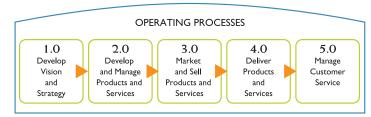
THE PHARMACEUTICAL PROCESS CLASSIFICATION FRAMEWORK

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

THE FRAMEWORK FOR PROCESS IMPROVEMENT

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

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





HISTORY

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





Version 5.0.1-en-PHARM ● July 2008

PROCESS CLASSIFICATION FRAMEWORK

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LOOKING FORWARD

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

ABOUT APOC

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

The PCF is written in United States English language format.

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ABOUT IBM

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

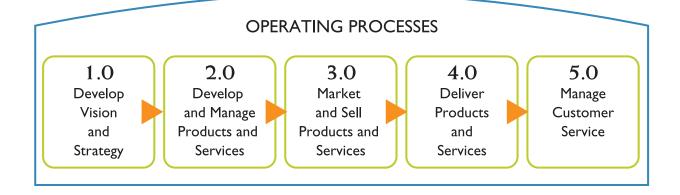
THE PHARMACEUTICAL PROCESS CLASSIFICATION FRAMEWORKSM

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UNDERSTANDING THE NUMBERING SCHEME

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



MANAGEN	MENT AND SUPPORT PROCESSES
6.0	Develop and Manage Human Capital
7.0	Manage Information Technology
8.0	Manage Financial Resources
9.0	Acquire, Construct, and Manage Property
10.0	Manage Environmental Health and Safety (EHS)
11.0	Manage External Relationships
12.0	Manage Knowledge, Improvement, and Change

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

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

INTERPRETING THE PCF

 $\begin{tabular}{ll} \textbf{Category:} The highest level within the PCF is indicated by whole numbers (e.g., 8.0 and 9.0) \end{tabular}$

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

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

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

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

1.0 Develop Vision and Strategy (10002)

1.1 Define the business concept and long-term vision (10014) 1.2.3 Select long-term business strategy (10039) Assess the external environment (10017) 1.2.4 Coordinate and align functional and process 1.1.1.1 Analyze and evaluate competition (10021) strategies (10040) 1.1.1.2 Identify economic trends (10022) 1.2.5 Create organizational design (structure, 1.1.1.3 Identify political and regulatory issues (10023) governance, reporting, etc.) (10041) Assess new technology innovations (10024) 1.1.1.4 1.2.5.1 Evaluate breadth and depth of organizational 1.1.1.5 Analyze demographics (10025) structure (10049) 1.1.1.6 Identify social and cultural changes (10026) 1.2.5.2 Perform job specific roles mapping and value-1.1.1.7 Identify ecological concerns (10027) add analyses (10050) 1.1.2 Survey market and determine customer needs and 1.2.5.3 Develop role activity diagrams to assess handwants (10018) off activity (10051) 1.2.5.4 Perform organization redesign workshops 1.1.2.1 Conduct qualitative/quantitative assessments (10052)1.2.5.5 Design the relationships between Capture and assess customer needs (10029) 1.1.2.2 organizational units (10053) Perform internal analysis (10019) 1.2.5.6 Develop role analysis and activity diagrams for Analyze organizational characteristics (10030) 1.1.3.1 key processes (10054) 1.1.3.2 Create baselines for current processes (10031) 1.2.5.7 Assess organizational implication of feasible 1.1.3.3 Analyze systems and technology (10032) alternatives (10055) 1.1.3.4 Analyze financial positions (10033) 1.2.5.8 Migrate to new organization (10056) Identify enterprise core competencies (10034) 1.1.3.5 Draft alternative structures (12745) 1.2.5.9 Establish strategic vision (10020) 1.2.5.10 Present recommendations to senior client Align stakeholders around strategic vision 1.1.4.1 executives (12746) 1.2.5.11 Adjust migration (12747) 1.1.4.2 Communicate strategic vision to stakeholders Develop and set organizational goals (10042) 1.2.6 (10036)1.2.7 Formulate business unit strategies (10043) 1.2 Develop business strategy (10015) **Manage strategic initiatives (10016)** Develop overall mission statement (10037) 1.3.1 Develop strategic initiatives (10057) Define current business (10044) 1.2.1.1 Formulate mission (10045) Evaluate strategic initiatives (10058) 1.2.1.2 1.3.2 1.2.1.3 Communicate mission (10046) 1.3.3 Select strategic initiatives (10059) 1.2.2 Evaluate strategic options to achieve the objectives Develop Over The Counter (OTC) / generic 1.3.3.1 (12740)business (12748) 1.2.2.1 Define strategic options (10047) 1.3.3.2 Network for new business (12749) 1.2.2.2 Assess and analyze impact of each option 1.3.3.3 Obtain new business financing (12750) 1.3.3.4 Structure contracts /milestones /accounting/ (10048)Arrange licensing (in/out) (12741) 1.2.2.3 tax (12751) Develop capitation programs (12742) 1.2.2.4 Establish high-level measures (10060)

1.2.2.5

1.2.2.6

Develop joint ventures (12743)

Perform acquisitions (12744)

2.0 Develop and Manage Products and Services (10003)

2.1	Disco	ver Produ	cts (12752)		2.3.1.6	Build prototypes (10088)
	2.1.1	Manage	research (12753)		2.3.1.7	Eliminate quality and reliability problems
		2.1.1.1	Identify targets (12754)			(10089)
		2.1.1.2	Validate targets (12755)		2.3.1.8	Conduct in-house product/service testing and
		2.1.1.3	Develop assay (12756)			evaluate feasibility (10090)
	2.1.2	Perform	research/ licensing (12757)		2.3.1.9	Identify design/development performance
		2.1.2.1	Acquire and license research knowledge		0.04.40	indicators (10091)
			(12758)		2.3.1.10	Collaborate design with suppliers and contract
		2.1.2.2	Conduct basic research (12759)		_	manufacturers (10092)
		2.1.2.3	Manage research technology/information	2.3.2		rket for new or revised products and
			(12760)		services	, ,
		2.1.2.4	Target basic research efforts (12761)		2.3.2.1 2.3.2.2	Prepare detailed market study (10093)
2.2	Mana	ae produc	et and service portfolio (10061)		2.3.2.2	Conduct customer tests and interviews (10094) Finalize product/service characteristics and
	2.2.1		performance of existing products/services		2.3.2.3	business cases (10095)
	2.2.1		narket opportunities (10063)		2.3.2.4	Finalize technical requirements (10096)
	2.2.2	_	roduct/service development requirements		2.3.2.5	Identify requirements for changes to
	۷.۷.۷	(10064)	roducy service development requirements		2.0.2.0	manufacturing/delivery processes (10097)
		2.2.2.1	Identify potential improvements to existing		2.3.2.6	Complete and report large-scale clinical trials
		2.2.2.1	products and services (10068)			(12762)
		2.2.2.2	Identify potential new products and services	2.3.3	Prepare	for production (10082)
			(10069)		2.3.3.1	Develop and test prototype production and/or
	2.2.3	Perform	discovery research (10065)			service delivery process (10098)
		2.2.3.1	Identify new technologies (10070)		2.3.3.2	Design and obtain necessary materials and
		2.2.3.2	Develop new technologies (10071)			equipment (10099)
		2.2.3.3	Assess feasibility of integrating new leading		2.3.3.3	Install and validate production process or
			technologies into product/service concepts			methodology (10100)
			(10072)	2.3.4		and submit dossier (12763)
	2.2.4		alignment of product/service concepts with strategy (10066)		2.3.4.1	Define regulatory strategy and target product profile (12764)
		2.2.4.1	Plan and develop cost and quality targets		2.3.4.2	Obtain scientific advice and engage regulators
			(10073)			(12765)
		2.2.4.2	Prioritize and select new product/service		2.3.4.3	Assemble registration dossiers (12766)
			concepts (10074)		2.3.4.4	Standardize where possible (12767)
		2.2.4.3	Specify development timing targets (10075)		2.3.4.5	Optimize submission process (12768)
		2.2.4.4	Plan for product/service offering modifications		2.3.4.6	Monitor speed of approvals (12769)
			(10076)		2.3.4.7	Compile and submit registration dossiers (12770)
	2.2.5		product and service life cycle (10067)	225	N/a	
		2.2.5.1	Introduce new products/services (10077)	2.3.5	2.3.5.1	regulatory requirements (12771) Train employees on appropriate regulatory
		2.2.5.2 2.2.5.3	Retire outdated products/services (10078) Identify and refine performance indicators		Z.J.J. I	requirements (12772)
		2.2.3.3	(10079)		2.3.5.2	Maintain records for regulatory agencies
2.3	Dovol	on produc	ets and services (10062)		2.0.0.2	(12773)
2.3			build, and evaluate products and services		2.3.5.3	File new product process with FDA and receive
	2.3.1	(10080)	ound, and evaluate products and services			regulatory approval (12774)
		2.3.1.1	Assign resources to product/service project		2.3.5.4	Publish (12775)
		2.0.1.1	(10083)		2.3.5.5	Manage submission life cycle (12776)
		2.3.1.2	Prepare high-level business case and technical			
			assessment (10084)			
		2.3.1.3	Develop product/service design specifications			
			(10085)			
		2.3.1.4	Document design specifications (10086)			
		2.3.1.5	Conduct mandatory and elective external			
			reviews (legal, regulatory, standards, internal)			
			(10087)			

3.0 Market and Sell Products and Services (10004)

3.1	Under	rstand ma	rkets, customers and capabilities (10101)		3.3.2	Develop	sales partner/alliance relationships (10130)
	3.1.1	Perform (10106)	customer and market intelligence analysis			3.3.2.1 3.3.2.2	Identify alliance opportunities (10138) Design alliance programs and methods for
		3.1.1.1 3.1.1.2 3.1.1.3 3.1.1.4	Conduct customer and market research (10108) Identify market segments (10109) Analyze market and industry trends (10110) Analyze competing organizations, competitive/			3.3.2.3 3.3.2.4	selecting and managing relationships (10139) Select alliances (10140) Develop partner and alliance management strategies (10141)
		3.1.1.5	substitute products (10111) Evaluate existing products/brands (10112)			3.3.2.5	Establish partner and alliance management goals (10142)
		3.1.1.6	Assess internal and external business environment (10113)		3.3.3	3.3.3.1	h overall sales budgets (10131) Calculate product revenue (10143)
	3.1.2	3.1.2.1 3.1.2.2 3.1.2.3	e and prioritize market opportunities (10107) Quantify market opportunities (10116) Determine target segments (10117) Prioritize opportunities consistent with capabilities and overall business strategy		3.3.4	3.3.3.2 3.3.3.3 3.3.3.4 3.3.3.5 Establis	Determine variable costs (10144) Determine overhead and fixed costs (10145) Calculate net profit (10146) Create budget (10147) h sales goals and measures (10132)
		3.1.2.4	(10118) Validate opportunities (10119)		3.3.5	Establis 3.3.5.1	h customer management measures (10133) Perform territory analysis and establish
3.2	Devel	-	ting strategy (10102)			3.3.5.2	composition (NEW) (12780) Establish sales force incentive program (NEW)
	3.2.1	(11168)	ffering and customer's value proposition				(12781)
		3.2.1.1 3.2.1.2	Define offering and positioning (11169) Develop value proposition including brand	3.4		•	anage marketing plans (10104)
			positioning for target segments (11170)		3.4.1		h goals, objectives and metrics for products nels/segments (10148)
		3.2.1.3	Validate value proposition and shape offering to optimize with target segments (11171)		3.4.2	Establis 3.4.2.1	h marketing budgets (10149) Confirm marketing alignment to business
	3.2.2	3.2.1.4	Develop new branding (11172) ricing strategy to align to value proposition			0.4.0.0	strategy (10155)
	3.2.2	(10123) 3.2.2.1				3.4.2.2 3.4.2.3	Determine costs of marketing (10156) Create marketing budget (10157)
		J.Z.Z. I	Establish guidelines for applying pricing of products/services (10124)		3.4.3	Develop 3.4.3.1	and manage media (10150) Define media objectives (10158)
		3.2.2.2	Approve pricing strategies/policies (10125)			3.4.3.2	Develop marketing messages (10159)
	3.2.3		nd manage channel strategy (10122)			3.4.3.3	Define target audience (10160)
		3.2.3.1	Evaluate channel attributes and partners (10126)			3.4.3.4 3.4.3.5	Engage media provider (10161) Develop and execute advertising (10162)
		3.2.3.2	Determine channel fit with target segments (10127)			3.4.3.6	Develop and execute divertising (19102) Develop and execute other marketing campaigns/programs (11253)
•		3.2.3.3	Select channels for target segments (10128)			3.4.3.7	Assess brand/product marketing plan performance (11254)
3.3		-	strategy (10103)		3.4.4	Develop	and manage pricing (10151)
	3.3.1	3.3.1.1	sales forecast (10129) Gather current and historic order information (10134)			3.4.4.1	Determine pricing based on volume/unit forecast (10163)
		3.3.1.2	Analyze sales trends and patterns (10135)			3.4.4.2	Execute pricing plan (10164)
		3.3.1.3	Generate sales forecast (10136)			3.4.4.3	Evaluate pricing performance (10165)
		3.3.1.4	Analyze historical and planned promotions and events (10137)			3.4.4.4 3.4.4.5	Refine pricing as needed (10166) Develop and execute Pharmacoeconomics (12782)
		3.3.1.5	Gather current and historic order information (NEW) (12777)		3.4.5	Develop	and manage promotional activities (10152)
		3.3.1.6	Analyze trends and patterns (NEW) (12778)			3.4.5.1	Define promotional concepts (10167)
		3.3.1.7	Analyze changing channels/markets, product life cycle and competition (NEW) (12779)			3.4.5.2 3.4.5.3 3.4.5.4	Plan and test promotional activities (10168) Execute promotional activities (10169) Evaluate promotional performance metrics (10170)

	3.4.6	3.4.5.5 3.4.5.6	Refine promotional performance metrics (10171) Incorporate learning into future/planned consumer promotions (10172) ustomer management measures (10153)	3.5.3	Manage 3.5.3.1 3.5.3.2 3.5.3.3 3.5.3.4	Perform sales (10184) Perform sales calls (10190) Perform pre-sales activities (10191) Close the sale (10192) Record outcome of sales process (10193)
	0	3.4.6.1	Determine customer loyalty/lifetime value (10173)	3.5.4	3.5.4.1	e sales orders (10185) Accept and validate sales orders (10194)
		3.4.6.2 3.4.6.3	Analyze customer revenue trend (10174) Analyze customer attrition and retention rates (10175)		3.5.4.2	Collect and maintain customer account information (10195) Determine stock availability (10196)
		3.4.6.4	Analyze customer metrics (i.e., customer attrition and retention rates) (10176)		3.5.4.4 3.5.4.5	Determine logistics and transportation (10197) Enter orders into system and identify/perform
	0.47	3.4.6.5	Revise customer strategies, objectives and plans based on metrics (10177)		3.5.4.6 3.5.4.7	cross-sell/up-sell activity (10198) Process back orders and updates (10199) Handle order inquiries including post-order
	3.4.7	3.4.7.1	and manage packaging strategy (10154) Plan packaging strategy (10178)		3.3.4.7	fulfillment transactions (10200)
		3.4.7.2 3.4.7.3 3.4.7.4	Test packaging options (10179) Execute packaging strategy (10180) Refine packaging (10181)	3.5.5	Manage 3.5.5.1 3.5.5.2	e sales force (10186) Determine sales resource allocation (10209) Establish sales force incentive plan (10210)
3.5	Devel	op and m	anage sales plans (10105)	3.5.6	Manage 3.5.6.1	e sales partners and alliances (10187) Provide sales and product training to sales
	3.5.1	Generat 3.5.1.1	re leads (10182) Identify potential customers (10188)			partners/alliances (10211)
		3.5.1.2	Identify potential customers (10166)		3.5.6.2	Develop sales forecast by partner/alliance (10212)
	3.5.2	3.5.2.1	e customers and accounts (10183) Develop sales/key account plan (11173)		3.5.6.3	Agree on partner and alliance commissions (10213)
		3.5.2.2	Manage customer relationships (11174)		3.5.6.4	Evaluate partner/alliance results (10214)

4.0 Deliver Products and Services (12857)

4.1			cquire necessary resources Planning) (10215)		4.1.3.2	Collaborate with supplier and contract manufacturers (10243)
	4.1.1	Develop 4.1.1.1	production and materials strategies (10221) Define manufacturing goals (10229)		4.1.3.3	Identify critical materials and supplier capacity (10244)
		4.1.1.2	Define labor and materials policies (10230)		4.1.3.4	Monitor material specifications (10245)
		4.1.1.3	Define outsourcing policies (10231)		4.1.3.5	Generate constrained plan (10246)
		4.1.1.4	Define manufacturing capital expense policies (10232)	4.1.4	Create a (10224)	and manage master production schedule
		4.1.1.5	Define capacities (10233)		4.1.4.1	Generate site level plan (10247)
		4.1.1.6	Define production network and supply		4.1.4.2	Manage work-in-progress inventory (10248)
			constraints (10234)		4.1.4.3	Collaborate with suppliers (10249)
	4.1.2	Manage	e demand for products and services (10222)		4.1.4.4	Generate and execute site schedule (10250)
		4.1.2.1	Develop baseline forecasts (10235)	4.1.5	Plan dis	stribution requirements (10225)
		4.1.2.2	Collaborate with customers (10236)		4.1.5.1	Allocate available to promise (10251)
		4.1.2.3	Develop consensus forecast (10237)		4.1.5.2	Maintain master data (10252)
		4.1.2.4	Allocate available to promise (10238)		4.1.5.3	Determine finished goods inventory
		4.1.2.5	Monitor activity against forecast and revise			requirements at destination (10253)
			forecast (10239)		4.1.5.4	Calculate requirements at destination (10254)
		4.1.2.6	Evaluate and revise forecasting approach		4.1.5.5	Calculate consolidation at source (10255)
			(10240)		4.1.5.6	Manage collaborative replenishment planning
		4.1.2.7	Measure forecast accuracy (10241)			(10256)
	4.1.3	Create r	materials plan (10223)		4.1.5.7	Manage requirements for partners (10257)
		4.1.3.1	Create unconstrained plan (10242)		4.1.5.8	Calculate destination dispatch plan (10258)
					4.1.5.9	Manage dispatch plan attainment (10259)

		4.1.5.10	Calculate destination load plans (10260)	4.3	Procu	ıre materi	ials and services (10216)
		4.1.5.11	Manage partner load plan (10261)		4.3.1	Develop	sourcing strategies (10277)
		4.1.5.12	Manage the cost of supply (10262)			4.3.1.1	Develop procurement plan (10281)
		4.1.5.13	Manage capacity utilization (10263)			4.3.1.2	Clarify purchasing requirements (10282)
	4.1.6	Establis	n distribution planning constraints (10226)			4.3.1.3	Develop inventory strategy (10283)
		4.1.6.1	Establish distribution center layout constraints			4.3.1.4	Match needs to supply capabilities (10284)
			(10267)			4.3.1.5	Analyze company's spend profile (10285)
		4.1.6.2	Establish inventory management constraints			4.3.1.6	Seek opportunities to improve efficiency and
		1.1.0.2	(10268)			1.0.1.0	value (10286)
		4.1.6.3	Establish transportation management			4.3.1.7	Collaborate with suppliers to identify sourcing
		4.1.0.0	constraints (10269)			4.0.1.7	opportunities (10287)
	4 1 7	D:			400	0-14-	• •
	4.1.7		distribution planning policies (10227)		4.3.2		suppliers and develop/maintain contracts
		4.1.7.1	Review distribution network (10264)			(10278)	0-1+(10000)
		4.1.7.2	Establish sourcing relationships (10265)			4.3.2.1	Select suppliers (10288)
		4.1.7.3	Establish dynamic deployment policies (10266)			4.3.2.2	Certify and validate suppliers (10289)
	4.1.8		distribution planning performance (10228)			4.3.2.3	Negotiate contracts (10290)
		4.1.8.1	Establish appropriate performance indicators			4.3.2.4	Manage contracts (10291)
			(metrics) (10270)		4.3.3		aterials and services (10279)
		4.1.8.2	Establish monitoring frequency (10271)			4.3.3.1	Process/Review requisitions (10292)
		4.1.8.3	Calculate performance measures (10272)			4.3.3.2	Approve requisitions (10293)
		4.1.8.4	Identify performance trends (10273)			4.3.3.3	Solicit/Track vendor quotes (10294)
		4.1.8.5	Analyze performance benchmark gaps (10274)			4.3.3.4	Create/Distribute purchase orders (10295)
		4.1.8.6	Prepare appropriate reports (10275)			4.3.3.5	Expedite orders and satisfy inquiries (10296)
		4.1.8.7	Develop performance improvement plan			4.3.3.6	Record receipt of goods (10297)
			(10276)			4.3.3.7	Research/Resolve exceptions (10298)
	4.1.9	Develop	quality standards and procedures (10368)		4.3.4	Apprais	e and develop suppliers (10280)
		4.1.9.1	Establish quality targets (10371)			4.3.4.1	Monitor/Manage supplier information (10299)
		4.1.9.2	Develop standard testing procedures (10372)			4.3.4.2	Prepare/Analyze procurement and vendor
			0 1 11 15 1 (100=0)				(40000)
		4.1.9.3	Communicate quality specifications (10373)				performance (10300)
4.2	Plan a		ge Regulatory Approval (12783)			4.3.4.3	Support inventory and production processes
4.2	Plan a 4.2.1	and Mana					Support inventory and production processes (10301)
4.2		and Mana	ge Regulatory Approval (12783)			4.3.4.4	Support inventory and production processes (10301) Monitor quality of product delivered (10302)
4.2		and Mana Plan and	ge Regulatory Approval (12783) I initiate validation (12784)	4.4	Produ	4.3.4.4	Support inventory and production processes (10301)
4.2		and Mana Plan and 4.2.1.1	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785)	4.4	Produ 4.4.1	4.3.4.4 ice/Manu	Support inventory and production processes (10301) Monitor quality of product delivered (10302)
4.2		and Mana Plan and 4.2.1.1 4.2.1.2	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786)	4.4		4.3.4.4 ice/Manu	Support inventory and production processes (10301) Monitor quality of product delivered (10302) facture/Deliver product (10217)
4.2		Plan and 4.2.1.1 4.2.1.2 4.2.1.3	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787)	4.4		4.3.4.4 I ce/Manu Schedul	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol	4.4		4.3.4.4 I ce/Manu Schedul 4.4.1.1	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1	ge Regulatory Approval (12783) d initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789)	4.4		4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol	4.4		4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1	ge Regulatory Approval (12783) d initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification	4.4		4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3	ge Regulatory Approval (12783) d initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (0Q/PQ) protocol (12790)	4.4		4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (0Q/PQ) protocol (12790) Review and approve protocols (12791)	4.4		4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Perpoduct (10304)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3 Execute	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (OQ/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3 Execute 4.2.3.1	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (OQ/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3 Execute 4.2.3.1	ge Regulatory Approval (12783) d initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (0Q/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793) Execute validation/qualification protocols	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2 4.4.2.3	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311) Rerun defective items (10313)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3 Execute 4.2.3.1 4.2.3.2	ge Regulatory Approval (12783) d initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (0Q/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793) Execute validation/qualification protocols (12794)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2 4.4.2.3 4.4.2.4	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311) Rerun defective items (10313) Assess production performance (10314)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3 Execute 4.2.3.1 4.2.3.2 4.2.3.3	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (0Q/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793) Execute validation/qualification protocols (12794) Evaluate results (12795)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2 4.4.2.3 4.4.2.4 4.4.2.5	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311) Rerun defective items (10313) Assess production performance (10314) Process order release (12807)
4.2	4.2.1	Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3 Execute 4.2.3.1 4.2.3.2 4.2.3.3 4.2.3.4	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (0Q/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793) Execute validation/qualification protocols (12794) Evaluate results (12795) Prepare validation report (12796)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2 4.4.2.3 4.4.2.4 4.4.2.5 4.4.2.6	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311) Rerun defective items (10313) Assess production performance (10314) Process order release (12807) Release to EBR (12808)
4.2	4.2.1	Plan and Mana Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3 Execute 4.2.3.1 4.2.3.2 4.2.3.5 4.2.3.6	ge Regulatory Approval (12783) d initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (0Q/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793) Execute validation/qualification protocols (12794) Evaluate results (12795) Prepare validation report (12796) Review and approve validation report (12797) Release and use (12798)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2 4.4.2.3 4.4.2.5 4.4.2.6 4.4.2.7	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311) Rerun defective items (10313) Assess production performance (10314) Process order release (12807) Release to EBR (12808) Report (12809)
4.2	4.2.2	Plan and Mana Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3 Execute 4.2.3.1 4.2.3.2 4.2.3.5 4.2.3.6	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (0Q/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793) Execute validation/qualification protocols (12794) Evaluate results (12795) Prepare validation report (12796) Review and approve validation report (12797)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2 4.4.2.3 4.4.2.4 4.4.2.5 4.4.2.6 4.4.2.7 Test Produce Te	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311) Rerun defective items (10313) Assess production performance (10314) Process order release (12807) Release to EBR (12808) Report (12809)
4.2	4.2.2	Plan and Mana Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3 Execute 4.2.3.1 4.2.3.2 4.2.3.5 4.2.3.6 Maintain	ge Regulatory Approval (12783) I initiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (0Q/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793) Execute validation/qualification protocols (12794) Evaluate results (12795) Prepare validation report (12796) Review and approve validation report (12797) Release and use (12798)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2 4.4.2.3 4.4.2.4 4.4.2.5 4.4.2.7 Test Pro 4.4.3.1	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311) Rerun defective items (10313) Assess production performance (10314) Process order release (12807) Release to EBR (12808) Report (12809) oduct (12810) Test and release bulk (12811)
4.2	4.2.2	Plan and Mana Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.3.3 Execute 4.2.3.1 4.2.3.2 4.2.3.6 Maintain 4.2.4.1 4.2.4.2	ge Regulatory Approval (12783) dinitiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (OQ/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793) Execute validation/qualification protocols (12794) Evaluate results (12795) Prepare validation report (12796) Review and approve validation report (12797) Release and use (12798) validation program documentation (12800) Review documentation (12801)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2 4.4.2.3 4.4.2.4 4.4.2.5 4.4.2.6 4.4.2.7 Test Produce 4.4.3.1 4.4.3.2	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311) Rerun defective items (10313) Assess production performance (10314) Process order release (12807) Release to EBR (12808) Report (12809) Induct (12810) Test and release bulk (12811) Test and release intermediate product (12812)
4.2	4.2.2 4.2.3 4.2.4	Plan and Mana Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.3.3 Execute 4.2.3.1 4.2.3.2 4.2.3.6 Maintain 4.2.4.1 4.2.4.2	ge Regulatory Approval (12783) dinitiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (0Q/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793) Execute validation/qualification protocols (12794) Evaluate results (12795) Prepare validation report (12796) Review and approve validation report (12797) Release and use (12798) validation program documentation (12799) Maintain documentation (12800) Review documentation (12801) revalidation maintenance plans (12802)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2 4.4.2.3 4.4.2.4 4.4.2.5 4.4.2.7 Test Pro 4.4.3.1	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311) Rerun defective items (10313) Assess production performance (10314) Process order release (12807) Release to EBR (12808) Report (12809) oduct (12810) Test and release bulk (12811) Test and release finished packaged products
4.2	4.2.2 4.2.3 4.2.4	Plan and Mana Plan and 4.2.1.1 4.2.1.2 4.2.1.3 Develop 4.2.2.1 4.2.2.2 4.2.2.3 Execute 4.2.3.1 4.2.3.2 4.2.3.5 4.2.3.6 Maintain 4.2.4.1 4.2.4.2 Develop	ge Regulatory Approval (12783) dinitiate validation (12784) Define ownership and responsibility (12785) Develop master validation plan (12786) Review/Approve master validation plan (12787) validation/ qualification protocols (12788) Develop Installation Qualification (IQ) protocol (12789) Develop Operational/Performance Qualification (OQ/PQ) protocol (12790) Review and approve protocols (12791) validation/ qualification Protocols (12792) Train participants (12793) Execute validation/qualification protocols (12794) Evaluate results (12795) Prepare validation report (12796) Review and approve validation report (12797) Release and use (12798) validation program documentation (12800) Review documentation (12801)	4.4	4.4.1	4.3.4.4 Schedul 4.4.1.1 4.4.1.2 4.4.1.3 4.4.1.4 4.4.1.5 4.4.1.6 Produce 4.4.2.1 4.4.2.2 4.4.2.3 4.4.2.4 4.4.2.5 4.4.2.6 4.4.2.7 Test Produce 4.4.3.1 4.4.3.2	Support inventory and production processes (10301) Monitor quality of product delivered (10302) Ifacture/Deliver product (10217) Ile production (10303) Generate line level plan (10306) Generate detailed schedule (10307) Schedule production orders and create lots (10308) Release production orders and release create lots (10309) Develop campaign schedule (12805) Develop production schedule (12806) Product (10304) Manage raw material inventory (10310) Execute detailed line schedule (10311) Rerun defective items (10313) Assess production performance (10314) Process order release (12807) Release to EBR (12808) Report (12809) Induct (12810) Test and release bulk (12811) Test and release intermediate product (12812)

	4.4.4	Schedul	e and perform maintenance (10305)	4.6	Mana	ge logisti	cs and warehousing (10219)
		4.4.4.1	Determine process for preventive (planned) maintenance (Preventive Maintenance Orders) (10315)		4.6.1	Define l o 4.6.1.1	ogistics strategy (10338) Translate customer service requirements into logistics requirements (10343)
		4.4.4.2	Determine process for requested (unplanned) maintenance (Work Order Cycle) (10316)			4.6.1.2 4.6.1.3	Design logistics network (10344) Communicate outsourcing needs (10345)
		4.4.4.3	Execute maintenance (10317)			4.6.1.4	Develop and maintain delivery service policy
		4.4.4.4	Calibrate test equipment (10318)			1.0.1.1	(10346)
		4.4.4.5	Report maintenance issues (10319)			4.6.1.5	Optimize transportation schedules and costs
		4.4.4.6	Perform quality control testing (12814)				(10347)
		4.4.4.7	Identify root cause of quality issues (12815)			4.6.1.6	Define key performance measures (10348)
		4.4.4.8	Implement quality improvement measures (12816)		4.6.2	Plan inb 4.6.2.1	ound material flow (10339) Plan inbound material receipts (10349)
		4.4.4.9	Determine process for preventive (planned) maintenance (Preventive Maintenance Orders) (12817)			4.6.2.2 4.6.2.3 4.6.2.4	Manage inbound material flow (10350) Monitor inbound delivery performance (10351) Manage flow of returned products (10352)
		4.4.4.10	Determine process for requested (unplanned)		4.6.3		warehousing (10340)
			maintenance (Work Order Cycle) (12818)		4.0.3	4.6.3.1	Track inventory deployment (10353)
		4.4.4.11	Manage equipment (12819)			4.6.3.1	Receive, inspect, and store inbound deliveries
	4.4.5	Perform	quality testing (10369)			4.0.3.2	(10354)
		4.4.5.1	Perform testing using the standard testing			4.6.3.3	Track product availability (10355)
			procedure (10374)			4.6.3.4	Pick, pack, and ship product for delivery (10356)
		4.4.5.2	Record test results (10375)			4.6.3.5	Track inventory accuracy (10357)
	4.4.6		n production records and manage lot lity (10370)			4.6.3.6	Track third-party logistics storage and shipping performance (10358)
		4.4.6.1	Determine lot numbering system (10376)			4.6.3.7	Manage physical finished goods inventory
		4.4.6.2	Determine lot usage (10377)				(10359)
/ E	Dalina		40 austomor (10210)		4.6.4	Operate	outbound transportation (10341)
4.5	4.5.1	Confirm	to customer (10218) specific service requirements for individual			4.6.4.1	Plan, transport, and deliver outbound product (10360)
		4.5.1.1	e r (10320) Process customer request (10324)			4.6.4.2	Track carrier delivery performance (10361)
		4.5.1.1	Create customer profile (10325)			4.6.4.3	Manage transportation fleet (10362)
		4.5.1.2	Generate service order (10326)			4.6.4.4	Process and audit carrier invoices and
	4.5.2	Identify and schedule resources to meet service					documents (10363)
	4.J.Z		nents (10321)		4.6.5	_	returns; manage reverse logistics (10342)
		4.5.2.1	Create resourcing plan and schedule (10327)			4.6.5.1	Authorize and process returns (10364)
		4.5.2.2	Create service order fulfillment schedule				Perform reverse logistics (10365)
		1.0.2.2	(10328)			4.6.5.3	Perform salvage activities (10366)
		4.5.2.3	Develop service order (10329)			4.6.5.4	Manage and process warranty claims (10367)
	4.5.3		the service to specific customers (10322) Organize daily service order fulfillment			4.6.5.5	Verify the authorization of the process returns (12820)
		4.0.3.1	schedule (10330)			4.6.5.6	Receive returned product (12821)
		4.5.3.2	Dispatch resources (10331)			4.6.5.7	Determine the disposition of the returned
		4.5.3.3	Manage order fulfillment progress (10332)			4050	product (12822)
		4.5.3.4	Validate order fulfillment block completion (10333)			4.6.5.8	Perform the destruction of the returned products (12823)
	151	Enguro	quality of service (10323)			4.6.5.9	File the destruction with appropriate agency
	4.5.4	4.5.4.1	Identify completed orders for feedback (10334)			10510	(12824)
		4.5.4.1	Identify incomplete orders and service failures	4.7	Mana	4.6.5.10	Manage and process warranty claims (12825) y Assurance/Quality Control (12826)
		1512	(10335)	7.7		_	
		4.5.4.3	Solicit customer feedback on services delivered (10336)		4.7.1	(12827)	and maintain quality management system
		4.5.4.4	Process customer feedback on services delivered (10337)		4.7.2	(12828)	quality standards and sampling procedures
						4.7.2.1	Receive sample batch quantity (12829)

	4.7.3		Develop standard testing procedures for all materials (12830) Communicate quality specifications (12831) stability and validating tests and maintain alts (12832) Perform testing using the standard testing procedure (12833) Record test results (12834)	4.7.4	Maintai (12835) 4.7.4.1 4.7.4.2 4.7.4.3	n batch records and manage lot traceability Determine batch numbering system (12836) Perform goods issue (12837) Determine batch usage (12838)
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5.0 Manage Customer Service (10006)

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6.0 Develop and Manage Human Capital (12858)

6.1	Devel	op and m	anage human resources (HR) planning,		6.2.3	Screen a	and select candidates (10441)
			trategies (10409)			6.2.3.1	Identify and deploy candidate selection tools
	6.1.1	Develop	human resources strategy (10415)				(10456)
		6.1.1.1	Identify strategic HR needs (10418)			6.2.3.2	Interview candidates (10457)
		6.1.1.2	Define HR and business function roles and			6.2.3.3	Test candidates (10458)
		0110	accountability (10419)		004	6.2.3.4	Select and reject candidates (10459)
		6.1.1.3 6.1.1.4	Determine HR costs (10420) Establish HR measures (10421)		6.2.4	6.2.4.1	pre-placement verification (10442) Complete candidate background information
		6.1.1.5	Communicate HR strategies (10422)			0.2.4.1	(10460)
	6.1.2		and implement human resources plans			6.2.4.2	Conduct pre-employment screening (10461)
		(10416)				6.2.4.3	Recommend/not recommend candidate (10462)
		6.1.2.1	Gather skill requirements according to		6.2.5	•	new hire/re-hire (10443)
			corporate strategy and market environment			6.2.5.1 6.2.5.2	Draw up and make offer (10463)
		6.1.2.2	(10423) Plan employee resourcing requirements per			6.2.5.3	Negotiate offer (10464) Hire candidate (10465)
		0.1.2.2	unit/organization (10424)		6.2.6		andidates (10444)
		6.1.2.3	Develop compensation plan (10425)		0.2.0	6.2.6.1	Create applicant record (10466)
		6.1.2.4	Develop succession plan (10426)			6.2.6.2	Manage/track applicant data (10467)
		6.1.2.5	Develop employee diversity plan (10427)			6.2.6.3	Archive and retain records of non-hires (10468)
		6.1.2.6	Develop other HR programs (10428)	6.3	Dovol	on and co	ounsel employees (10411)
		6.1.2.7 6.1.2.8	Develop HR policies (10429) Administer HR policies (10430)	0.5	6.3.1	-	employee orientation and deployment
		6.1.2.9	Plan employee benefits (10431)		0.5.1	(10469)	employee orientation and deployment
		6.1.2.10	Develop strategy for HR systems/			6.3.1.1	Create/maintain employee on-boarding
			technologies/tools (10432)				program (10474)
		6.1.2.11	Develop workforce strategy models (10433)			6.3.1.2	Introduce new employees to managers (10475)
	6.1.3		and update plans (10417)			6.3.1.3	Introduce workplace (10476)
		6.1.3.1	Measure realization of objectives (10434)			6.3.1.4	Evaluate the effectiveness of the employee
		6.1.3.2	Measure contribution to business strategy (10435)		6.3.2	Managa	on-boarding program (11243) employee performance (10470)
		6.1.3.3	Communicate plans and provide updates to		0.3.2	6.3.2.1	Define performance objectives (10479)
		0.1.0.0	stakeholders (10436)			6.3.2.2	Review, appraise, and manage employee
		6.1.3.4	Determine value added from HR function				performance (10480)
			(10437)			6.3.2.3	Evaluate and review performance program
		6.1.3.5	Review and revise HR plans (10438)				(10481)
6.2	Recru	it, source	e, and select employees (10410)		6.3.3	_	employee relations (10471)
	6.2.1	Create a	and develop employee requisitions (10439)			6.3.3.1 6.3.3.2	Manage health and safety (10482) Manage labor relations (10483)
		6.2.1.1	Align staffing plan to workforce plan and			6.3.3.3	Manage collective bargaining process (10484)
			business unit strategies/resource needs			6.3.3.4	Manage labor management partnerships
		0010	(10445)				(10485)
		6.2.1.2	Develop and open job requisition (10446)		6.3.4	Manage	employee development (10472)
		6.2.1.3 6.2.1.4	Develop a job description (10447) Post requisition (10448)			6.3.4.1	Develop competency management plans (10486)
		6.2.1.5	Manage internal/external job posting Web			6.3.4.2	Define employee development guidelines
			sites (10449)			0040	(10487)
		6.2.1.6	Change/Update requisition (10450)			6.3.4.3 6.3.4.4	Develop employee career plans (10488) Manage employee skills development (10489)
		6.2.1.7	Notify hiring manager (10451)		6.3.5		and train employees (10473)
			3.2.1.8 Manage requisition date (10452)		0.5.5	6.3.5.1	Align employee and organization development
	6.2.2		Source candidates (10440)			0.0.0.1	needs (10490)
		6.2.2.1 6.2.2.2	Determine recruitment methods (10453) Perform recruiting activities/events (10454)			6.3.5.2	Develop competencies (10491)
		6.2.2.3	Manage recruitment vendors (10455)			6.3.5.3	Establish training needs by analysis of
		0.2.2.0				C O E 4	required and available skills (10492)
						6.3.5.4	Develop, conduct, and manage employee and/ or management training programs (10493)

6.4	Rewa	rd and ret	ain employees (10412)		6.5.5		and implement employee outplacement
6.4	6.4.1	Develop	and manage reward, recognition, and on programs (10494) Develop salary/compensation structure and plan (10498) Develop benefits and reward plan (10499) Perform competitive analysis of benefit and rewards (10500) Identify compensation requirements based on financial, benefits, and HR policies (10501) Administer compensation and rewards to	6.6	6.5.6 6.5.7 6.5.8 6.5.9 6.5.10	(10516) Manage Relocate (10518) Manage (10519) Manage Manage	deployment of personnel (10517) e employees and manage assignments employment reduction and retirement expatriates (10520) employee relocation process (10521) yee information (10414)
	6.4.2	6.4.2.1 6.4.2.2 6.4.2.3 6.4.2.4	employees (10502) Reward and motivate employees (10503) and administer benefits (10495) Deliver employee benefits program (10504) Administer benefit enrollment (10505) Process claims (10506) Perform benefit reconciliation (10507) employee assistance and retention (10496) Deliver programs to support work/life balance for employees (10508) Develop family support systems (10509) Review retention and motivation indicators (10510)		6.6.1 6.6.2 6.6.3 6.6.4 6.6.5 6.6.6 6.6.7	Manage Manage Manage (HRIS) (1 Develop Develop	reporting processes (10522) employee inquiry process (10523) and maintain employee data (10524) human resource information systems 0525) and manage employee metrics (10526) and manage time and attendance (10527) employee communication (10528) Develop employee communication plan (10529) Manage/collect employee suggestions and perform employee research (10530)
	6.4.4	6.4.3.4 Review compensation plan (10511) Payroll administration (10497)			6.6.7.3 6.6.7.4	Manage employee grievances (10531) Publish employee communications (10532)	
6.5	Re-de 6.5.1 6.5.2 6.5.3 6.5.4	Manage Manage Manage	pretire employees (10413) promotion and demotion process (10512) separation (10513) retirement (10514) leave of absence (10515)	6.7	Mana 6.7.1 6.7.2 6.7.3 6.7.4	Evaluate Evaluate Optimize	relations (12859) union relations internally (12860) union relations externally (12861) relations (12862) relations (12863)

7.0 Manage Information Technology (12864)

7.1	Manage the business of information technology (10563)				7.1.8	Manage IT suppliers and contracts (10577)		
	7.1.1	Develop the enterprise IT strategy (10570)				7.1.8.1	Develop IT (development and delivery)	
		7.1.1.1	Build strategic intelligence (10603)				sourcing strategies (10630)	
		7.1.1.2	Identify long-term IT needs of the enterprise in			7.1.8.2	Negotiate with suppliers (10631)	
			collaboration with stakeholders (10604)			7.1.8.3	Establish and maintain supplier relationships	
		7.1.1.3	Define strategic standards, guidelines and			7.1.8.4	(10632) Evaluate supplier performance (10633)	
		7.1.1.4	principles (10605) Define and establish IT architecture and			7.1.8.5	Assess contract performance (10634)	
		7.1.1.4	development standards (10606)				·	
		7.1.1.5	Define strategic vendors for IT components	7.2	Devel	•	anage IT customer relationships (10564)	
		,,,,,,	(10607)		7.2.1	-	IT services and solutions strategy (10578)	
		7.1.1.6	Establish IT governance organization and			7.2.1.1	Research IT services and solutions to address	
			processes (10608)			7.2.1.2	business and user requirements (11244) Translate business and user requirements into	
		7.1.1.7	Build strategic plan to support business			1.2.1.2	IT services and solutions requirements (11245)	
		- 4	objectives (10609)			7.2.1.3	Formulate IT services and solutions strategic	
	7.1.2		he enterprise architecture (10571)			7.20	initiatives (11246)	
		7.1.2.1	Establish the enterprise architecture definition			7.2.1.4	Coordinate strategies with internal	
		7.1.2.2	(10611) Confirm enterprise architecture maintenance				stakeholders to ensure alignment (11247)	
		7.1.2.2	approach (10612)			7.2.1.5	Evaluate and select IT services and solutions	
		7.1.2.3	Maintain the relevance of the enterprise				strategic initiatives (11248)	
			architecture (10613)		7.2.2		and manage IT service levels (10579)	
		7.1.2.4	Act as clearinghouse for IT research and			7.2.2.1	Create and maintain the IT services and	
		7405	innovation (10614)			7.2.2.2	solutions catalog (10640) Establish and maintain business and IT service	
		7.1.2.5	nage the IT portfolio (10572)			1.2.2.2	level agreements (10641)	
	7.1.3					7.2.2.3	Evaluate and report service level attainment	
		7.1.3.1 7.1.3.2	Establish the IT portfolio (10616) Analyze and evaluate the value of the IT				results (10642)	
		7.1.3.2	portfolio for the enterprise (10617)			7.2.2.4	Communicate business and IT service level	
		7.1.3.3	Provision resources in accordance with				improvement opportunities (10643)	
			strategic priorities (10618) orm IT research and innovation (10573) 1 Research technologies to innovate IT services		7.2.3		demand side management (DSM) for IT	
	7.1.4	Perform					s (10580)	
		7.1.4.1				7.2.3.1	Analyze IT services and solutions consumption and usage (10644)	
		and solutions (10620) 7.1.4.2 Transition viable technologies for IT services and solutions development (10621)			7.2.3.2	Develop and implement incentive programs		
			Transition viable technologies for IT services			7.2.3.3	that improve consumption efficiency (10645)	
			•				Develop volume/unit forecast for IT services	
	7.1.5	Perform IT financial management (10574)				and solutions (10646)		
		7.1.5.1	Develop and maintain IT services and solutions		7.2.4	_	e IT customer satisfaction (10581)	
		7.1.5.2	cost transparency (10622) Establish and maintain accounting process			7.2.4.1	Capture and analyze customer satisfaction	
		7.1.3.2	(10623)			7.2.4.2	(10647) Assess and communicate customer	
		7.1.5.3	Tie project funding to business case decision			7.2.4.2	satisfaction patterns (10648)	
			checkpoints (10624)			7.2.4.3	Initiate improvements based on customer	
	7.1.6	Evaluate and communicate IT business value and					satisfaction patterns (10649)	
		perform	ance (10575)		7.2.5	Market	IT services and solutions (10582)	
		7.1.6.1	Establish and monitor key performance			7.2.5.1	Develop IT services and solutions marketing	
		7 4 0 0	indicators (10625)				strategy (10650)	
		7.1.6.2	Evaluate IT plan performance (10626)			7.2.5.2	Develop and manage IT customer strategy	
	7.4.7	7.1.6.3	Communicate IT value (10627)				(10651)	
	7.1.7		IT staff management (10576) Develop IT leadership and staff (10628)			7.2.5.3	Manage IT services and solutions advertising	
		7.1.7.1 7.1.7.2	Manage IT staff performance (10629)				and promotional campaigns (10652)	
		1.1.1.4	Manago II stari portormanto (10025)			7.2.5.4	Process and track IT services and solutions	
							orders (10653)	

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Manage business resiliency and risk (11216) 7.4.4.2 Manage technical interfaces to users of content (10664) Develop and manage business resilience (11217) 7.4.4.3 Manage retention, revision, and retirement of Develop the business resilience strategy enterprise information (10665) (11221)7.3.1.2 Perform continuous business operations 7.5 Develop and maintain information technology solutions planning (11222) (10566)Test continuous business operations (11223) 7.3.1.3 7.5.1 Develop the IT development strategy (10587) Maintain continuous business operations 7.3.1.4 Establish sourcing strategy for IT development 7.5.1.1 (11224)(10666)7.3.2 Develop and manage regulatory compliance (11218) 7.5.1.2 Define development processes, methodologies, Develop the regulatory compliance strategy 7.3.2.1 and tools standards (10667) Select development methodologies and tools 7.5.1.3 Establish regulatory compliance controls (11226) 7.3.2.2 (10668)Manage regulatory compliance remediation 7.3.2.3 7.5.2 Perform IT services and solutions life cycle (11227)planning (10588) 7.3.3 Perform integrated risk management (11219) 7.5.2.1 Plan development of new requirements 7.3.3.1 Develop an integrated risk strategy and (10669)approach (11228) Plan development of feature and functionality 7.5.2.2 7.3.3.2 Manage integrated risks (11229) enhancement (10670) Develop and implement security, privacy, and data Develop life cycle plan for IT services and 7.5.2.3 protection controls (11220) solutions (10671) 7.3.4.1 Establish information security, privacy, and 7.5.3 Develop and maintain IT services and solutions data protection strategies and levels (11230) architecture (10589) Test, evaluate, and implement information 7.3.4.2 Create IT services and solutions architecture 7.5.3.1 security, and privacy and data protection (10672)controls (11231) 7.5.3.2 Revise IT services and solutions architecture (10673)7.4 Manage enterprise information (10565) Retire IT services and solutions architecture 7.5.3.3 Develop information and content management (10674)strategies (10583) Create IT services and solutions (10590) 7.5.4 7.4.1.1 Understand information and content 7.5.4.1 Understand confirmed requirements (10675) management needs and the role of IT services 7.5.4.2 Design IT services and solutions (10676) for executing the business strategy (10654) 7.5.4.3 Acquire/Develop IT service/solution 7.4.1.2 Assess the information and content components (10677) management implications of new technologies 7.5.4.4 Train services and solutions resources (10678) (10655)7.5.4.5 Test IT services/solutions (10679) Identify and prioritize information and content 7.4.1.3 7.5.4.6 Confirm customer acceptance (10680) management actions (10656) 7.5.5 Maintain IT services and solutions (10591) 7.4.2 Define the enterprise information architecture 7.5.5.1 Understand upkeep/enhance requirements and (10584)defect analysis (10681) 7.4.2.1 Define information elements, composite Design change to existing IT service/solution 7.5.5.2 structure, logical relationships and constraints, taxonomy, and derivation rules (10657) (10682)Acquire/develop changed IT service/solution Define information access requirements 7.5.5.3 7.4.2.2 component (10683) Test IT service/solution change (10684) 7.5.5.4 7.4.2.3 Establish data custodianship (10659) 7.5.5.5 Retire solutions and services (10685) 7.4.2.4 Manage changes to content data architecture requirements (10660) 7.6 Deploy information technology solutions (10567) Manage information resources (10585) Develop the IT deployment strategy (10592) Define the enterprise information/data policies 7.4.3.1 Establish IT services and solutions change 7.6.1.1 and standards (10661) policies (10686) Develop and implement data and content 7.4.3.2 Define deployment process, procedures, and 7.6.1.2 administration (10662) tools standards (10687) Perform enterprise data and content management 7.6.1.3 Select deployment methodologies and tools (10586)(10688)7.4.4.1 Define sources and destinations of content data (10663)

	7.6.2 7.6.3	7.6.2.1 7.6.2.2 7.6.2.3 7.6.2.4 7.6.2.5 7.6.2.6	d implement changes (10593) Plan change deployment (10689) Communicate changes to stakeholders (10690) Administer change schedule (10691) Train impacted users (10692) Distribute and install change (10693) Verify change (10694) d manage releases (10594)		7.7.5	Support 7.7.5.1 7.7.5.2 7.7.5.3 7.7.5.4 7.7.5.5 7.7.5.6 7.7.5.7	IT services and solutions (10599) Manage availability (10708) Manage facilities (10709) Manage backup/recovery (10710) Manage performance and capacity (10711) Manage incidents (10712) Manage problems (10713) Manage inquiries (10714)
		7.6.3.1	Understand and coordinate release design and	7.8	Mana	ge IT kno	wledge (10569)
		7.6.3.2 7.6.3.3 7.6.3.4	acceptance (10695) Plan release rollout (10696) Distribute and install release (10697) Verify release (10698)		7.8.1	Develop 7.8.1.1 7.8.1.2 7.8.1.3	Understand IT knowledge needs (10715) Understand current IT knowledge flow (10716) Coordinate strategy and roles with the
7.7	(10568	Deliver and support information technology services (10568)				7.8.1.4	enterprise KM function (10717) Plan IT knowledge management actions and priorities (10718)
	7.7.1	Develop (10595) 7.7.1.1 7.7.1.2 7.7.1.3	IT services and solution delivery strategy Establish sourcing strategy for IT delivery (10699) Define delivery processes, procedures, and tools standards (10700) Select delivery methodologies and tools (10701)		7.8.2	Develop 7.8.2.1 7.8.2.2 7.8.2.3	and maintain IT knowledge map (10601) Define knowledge elements, logical relationships and constraints, and currency rules (10719) Identify IT knowledge sources and repositories (10720) Identify IT knowledge-sharing opportunities (10721)
	7.7.2	Develop 7.7.2.1	Develop IT support strategy (10596) 7.7.2.1 Establish sourcing strategy for IT support (10702)		7.8.2.4	Define IT knowledge processes and approaches (10722)	
		7.7.2.2	Define IT support services (10703)		7.8.3		IT knowledge life cycle (10602)
	7.7.3	Manage IT infrastructure resources (10597)				7.8.3.1	Gather knowledge elements from IT knowledge sources (10723)
		7.7.3.1 7.7.3.2	Manage IT inventory and assets (10704) Manage IT resource capacity (10705)			7.8.3.2	Evaluate, create, and codify knowledge elements (10724)
	7.7.4	Manage 7.7.4.1 7.7.4.2	IT infrastructure operations (10598) Deliver IT services and solutions (10706) Perform IT operations support services (10707)			7.8.3.3 7.8.3.4 7.8.3.5	Deploy codified IT knowledge (10725) Update and retire IT knowledge (10726) Evaluate and improve IT knowledge strategies and processes (10727)

8.0 Manage Financial Resources (10009)

B.1	Perfo	rm planni	ing and management accounting (10728)		8.2.4	Manage and process collections (10745)	
	8.1.1	-	planning/budgeting/forecasting (10738)			8.2.4.1	Establish policies for delinquent accounts
		8.1.1.1	Develop and maintain budget policies and				(10804)
			procedures (10771)			8.2.4.2	Analyze delinquent account balances (10805)
		8.1.1.2	Prepare periodic budgets and plans (10772)			8.2.4.3	Correspond/Negotiate with delinquent accounts (10806)
		8.1.1.3 8.1.1.4	Prepare periodic financial forecasts (10773)			8.2.4.4	Discuss account resolution with internal
	010		Develop project budgets (12865)			0.2.4.4	parties (10807)
	8.1.2	8.1.2.1	cost accounting and control (10739) Perform inventory accounting (10774)			8.2.4.5	Process adjustments/write-off balances
		8.1.2.2	Perform cost of sales analysis (10775)				(10808)
		8.1.2.3	Perform product costing (10776)		8.2.5	Manage	and process adjustments/deductions
		8.1.2.4	Perform variance analysis (10777)			(10746)	
		8.1.2.5	Report on profitability (11175)			8.2.5.1	Establish policies/procedures for adjustments
	8.1.3	Perform	cost management (10740)			0050	(10809)
		8.1.3.1	Determine key cost drivers (10778)			8.2.5.2 8.2.5.3	Analyze adjustments (10810) Correspond/Negotiate with customer (10811)
		8.1.3.2	Measure cost drivers (10779)			8.2.5.4	Discuss resolution with internal parties
		8.1.3.3	Determine critical activities (10780)			0.2.3.4	(10812)
		8.1.3.4	Manage asset resource deployment and			8.2.5.5	Prepare chargeback invoices (10813)
	014	Fueluete.	utilization (10781)			8.2.5.6	Process related entries (10814)
	8.1.4	8.1.4.1	e and manage financial performance (10741) Assess customer and product profitability	8.3	Dorfo	rm aonor	ol occupting and reporting (10720)
		0.1.1.1	(10782)	0.3	8.3.1	_	al accounting and reporting (10730) policies and procedures (10747)
		8.1.4.2	Evaluate new products (10783)		0.3.1	8.3.1.1	Negotiate service level agreements (10815)
		8.1.4.3	Perform life cycle costing (10784)			8.3.1.2	Establish accounting policies (10816)
		8.1.4.4	Optimize customer and product mix (10785)			8.3.1.3	Set and enforce approval limits (10817)
		8.1.4.5	Track performance of new customer and			8.3.1.4	Establish common financial systems (10818)
		0146	product strategies (10786)		8.3.2	Perform	general accounting (10748)
		8.1.4.6	Prepare activity-based performance measures (10787)			8.3.2.1	Maintain chart of accounts (10819)
		8.1.4.7	Manage continuous cost improvement (10788)			8.3.2.2	Process journal entries (10820)
			,			8.3.2.3	Process allocations (10821)
8.2			re accounting (10729)			8.3.2.4	Process period end adjustments (e.g., accruals, currency conversions, etc.) (10822)
	8.2.1		customer credit (10742)			8.3.2.5	Post and reconcile intercompany transactions
		8.2.1.1	Establish credit policies (10789)			0.0.2.0	(10823)
		8.2.1.2	Analyze/Approve new account applications (10790)			8.3.2.6	Reconcile GL accounts (10824)
		8.2.1.3	Review existing accounts (10791)			8.3.2.7	Perform consolidations and process
		8.2.1.4	Produce credit/collection reports (10792)				eliminations (10825)
		8.2.1.5	Reinstate or suspend accounts based on credit			8.3.2.8	Prepare trial balance (10826)
			policies (10793)			8.3.2.9	Prepare and post management adjustments
	8.2.2	Invoice	customer (10743)		0.00	D ((10827)
		8.2.2.1	Maintain customer/product master files		8.3.3		fixed asset accounting (10749)
		0.000	(10794)			8.3.3.1	Establish fixed asset policies and procedures
		8.2.2.2	Generate customer billing data (10795)			0000	(10828)
		8.2.2.3 8.2.2.4	Transmit billing data to customers (10796) Post receivable entries (10797)			8.3.3.2	Maintain fixed asset master data files (10829)
		8.2.2.5	Resolve customer billing inquires (10798)			8.3.3.3	Process and record fixed asset additions and retires (10830)
	8.2.3		accounts receivable (AR) (10744)			8.3.3.4	Process and record fixed asset adjustments,
	0.2.0	8.2.3.1	Establish AR policies (10799)			0.3.3.4	enhancements, revaluations, and transfers
		8.2.3.2	Receive/Deposit customer payments (10800)				(10831)
		8.2.3.3	Apply cash remittances (10801)			8.3.3.5	Process and record fixed asset maintenance
		8.2.3.4	Prepare AR reports (10802)			5.5.0.0	and repair expenses (10832)
		8.2.3.5	Post AR activity to the general ledger (10803)			8.3.3.6	Calculate and record depreciation expense
							(10833)

		8.3.3.7	Reconcile fixed asset ledger (10834)			8.5.2.5	Process and distribute payments (10862)
		8.3.3.8	Track fixed assets including physical inventory			8.5.2.6	Process and distribute manual checks (10863)
			(10835)			8.5.2.7	Process period end adjustments (10864)
		8.3.3.9	Provide fixed asset data to support tax,			8.5.2.8	Respond to employee payroll inquires (10865)
			statutory, and regulatory reporting (10836)		8.5.3		payroll taxes (10755)
	8.3.4		financial reporting (10750)			8.5.3.1	Calculate and pay applicable payroll taxes (10866)
		8.3.4.1	Prepare business unit financial statements			8.5.3.2	Produce and distribute employee annual tax
		0040	(10837)			0.0.0.2	statements (10867)
		8.3.4.2	Prepare consolidated financial statements (10838)			8.5.3.3	File regulatory payroll tax forms (10868)
		8.3.4.3	Perform business unit reporting/review				
		0.0.1.0	management reports (10839)	8.6	(1073		nts payable and expense reimbursements
		8.3.4.4	Perform consolidated reporting/review of cost		8.6.1	•	accounts payable (AP) (10756)
			management reports (10840)		0.0.1	8.6.1.1	Verify AP pay file with PO vendor master file
		8.3.4.5	Prepare statements for board review (10841)			0.0.1.1	(10869)
		8.3.4.6	Produce quarterly/annual filings and			8.6.1.2	Maintain/manage electronic commerce (10870)
		8.3.4.7	shareholder reports (10842) Produce regulatory reports (10843)			8.6.1.3	Audit invoices and key data in AP system
							(10871)
8.4	Mana		sset project accounting (10731)			8.6.1.4	Approve payments (10872)
	8.4.1		capital planning and project approval			8.6.1.5 8.6.1.6	Process financial accruals and reversals (10873) Process taxes (10874)
		(10751)	D. I			8.6.1.7	Research/resolve exceptions (10875)
		8.4.1.1	Develop capital investment policies and procedures (10844)			8.6.1.8	Process payments (10876)
		8.4.1.2	Develop and approve capital expenditure plans			8.6.1.9	Respond to AP inquires (10877)
		0.4.1.2	and budgets (10845)			8.6.1.10	Retain records (10878)
		8.4.1.3	Review and approve capital projects and fixed			8.6.1.11	Adjust accounting records (10879)
			asset acquisitions (10846)		8.6.2		expense reimbursements (10757)
		8.4.1.4	Conduct financial justification for project			8.6.2.1	Establish and communicate expense
			approval (10847)				reimbursement policies and approval limits (10880)
	8.4.2		capital project accounting (10752)			8.6.2.2	Capture and report relevant tax data (10881)
		8.4.2.1 8.4.2.2	Create project account codes (10848) Record project-related transactions (10849)			8.6.2.3	Approve reimbursements and advances (10882)
		8.4.2.3	Monitor and track capital projects and budget			8.6.2.4	Process reimbursements and advances (10883)
		0.1.2.0	spending (10850)			8.6.2.5	Manage personal accounts (10884)
		8.4.2.4	Close/capitalize projects (10851)	8.7	Mana	ige treasu	ry operations (10734)
		8.4.2.5	Measure financial returns on completed	0.7		Manage treasury policies and procedures (10758)	
			capital projects (10852)		0.7	8.7.1.1	Establish scope and governance of treasury
8.5	Proce	ss payrol	I (10732)				operations (10885)
	8.5.1		ime (10753)			8.7.1.2	Establish and publish treasury policies (10886)
		8.5.1.1	Establish policies and procedures (10853)			8.7.1.3	Develop treasury procedures (10887)
		8.5.1.2	Collect and record employee time worked			8.7.1.4 8.7.1.5	Monitor treasury procedures (10888)
		0.5.4.0	(10854)			8.7.1.6	Audit treasury procedures (10889) Revise treasury procedures (10890)
		8.5.1.3	Analyze and report paid and unpaid leave			8.7.1.7	Develop and confirm internal controls for
		8.5.1.4	(10855) Monitor regular, overtime, and other hours				treasury (10891)
		0.0.1.4	(10856)			8.7.1.8	Define system security requirements (10892)
		8.5.1.5	Analyze and report employee utilization (10857)		8.7.2	Manage	cash (10759)
	8.5.2	Manage	pay (10754)			8.7.2.1	Manage and reconcile cash positions (10893)
		8.5.2.1	Enter employee time worked into payroll			8.7.2.2	Manage cash equivalents (10894)
			system (10858)			8.7.2.3	Process and oversee electronic fund transfers (EFTs) (10895)
		8.5.2.2	Maintain and administer employee earnings			8.7.2.4	Develop cash flow forecasts (10896)
		0 5 2 2	information (10859) Maintain and administer applicable deductions			8.7.2.5	Manage cash flows (10897)
		8.5.2.3	Maintain and administer applicable deductions (10860)			8.7.2.6	Produce cash management accounting
		8.5.2.4	Monitor changes in tax status of employees				transactions and reports (10898)
			(10861)				

		8.7.2.7	Manage and oversee banking relationships (10899)			8.8.1.2	Define and communicate code of ethics (10915)
		8.7.2.8	Analyze, negotiate, resolve, and confirm bank fees (10900)			8.8.1.3	Assign roles and responsibility for internal controls (10916)
	8.7.3	Manage	in-house bank accounts (10760)			8.8.1.4	Define business process objectives and risks
		8.7.3.1	Manage in-house bank accounts for				(11250)
			subsidiaries (10901)			8.8.1.5	Define entity/unit risk tolerances (11251)
		8.7.3.2	Manage and facilitate inter-company		8.8.2		controls and monitor compliance with
			borrowing transactions (10902)			internal	controls policies and procedures (10763)
		8.7.3.3	Manage centralized outgoing payments on behalf of subsidiaries (10903)			8.8.2.1	Design and implement control activities (10917)
		8.7.3.4	Manage central incoming payments on behalf			8.8.2.2	Monitor control effectiveness (10918)
			of subsidiaries (10904)			8.8.2.3	Remediate control deficiencies (10919)
		8.7.3.5	Manage internal payments and netting			8.8.2.4	Create compliance function (10920)
			transactions (10905)			8.8.2.5	Operate compliance function (10921)
		8.7.3.6	Calculate interest and fees for in-house bank accounts (10906)			8.8.2.6	Implement and maintain controls-related enabling technologies and tools (10922)
		8.7.3.7	Provide account statements for in-house bank		8.8.3		n internal controls compliance (10764)
			accounts (10907)			8.8.3.1	Report to external auditors (10923)
	8.7.4		debt and investment (10761)			8.8.3.2	Report to regulators, share/debt-holders,
		8.7.4.1	Manage financial intermediary relationships				securities exchanges, etc. (10924)
			(10908)			8.8.3.3	Report to third parties (e.g., business partners)
		8.7.4.2	Manage liquidity (10909)				(10925)
		8.7.4.3	Manage issuer exposure (10910)			8.8.3.4	Report to internal management (10926)
		8.7.4.4	Process and oversee debt and investment transactions (10911)	8.9	Mana	ge taxes	
		8.7.4.5	Process and oversee foreign currency		8.9.1	-	tax strategy and plan (10765)
			transactions (10912)			8.9.1.1	Calculate foreign, national, state and local
		8.7.4.6	Produce debt and investment accounting				taxes (12866)
			transaction reports (10913)			8.9.1.2	Consolidate and optimize total tax plan (12867)
	8.7.5	Manage	financial risks (11208)			8.9.1.3	Maintain tax master data (12868)
		8.7.5.1	Manage interest rate risk (11209)		8.9.2		taxes (10766)
		8.7.5.2	Manage foreign exchange risk (11210)			8.9.2.1	Perform tax planning/strategy (10930)
		8.7.5.3	Manage exposure risk (11211)			8.9.2.2	Prepare returns (10931)
		8.7.5.4	Develop and execute hedging transactions			8.9.2.3	Prepare foreign taxes (10932)
			(11212)			8.9.2.4	Calculate deferred taxes (10933)
		8.7.5.5	Evaluate and refine hedging positions (11213)			8.9.2.5	Account for taxes (10934)
		8.7.5.6	Produce hedge accounting transactions and			8.9.2.6	Monitor tax compliance (10935)
			reports (11214)			8.9.2.7	Address tax inquiries (10936)
		8.7.5.7	Monitor credit (11215)	8.10		_	ational funds/consolidation (10737)
8.8		•	al controls (10735)				international rates (10767)
	8.8.1		n internal controls, policies and procedures		8.10.2	Manage	transactions (10768)
		(10762)			8.10.3	Monitor	currency exposure/hedge currency (10769)
		8.8.1.1	Establish board of directors and audit committee (10914)		8.10.4	Report re	sults (10770)
			Committee (10014)				

9.0 Acquire, Construct, and Manage Property (10010)

9.1 Design and construct/acquire non-productive assets (10937)

- 9.1.1 Develop property strategy and long term vision (10941)
 - 9.1.1.1 Confirm alignment of property requirements with business strategy (10955)
 - 9.1.1.2 Assess the external environment (10956)
 - 9.1.1.3 Determine build or buy decision (10957)
- 9.1.2 Develop, construct, and modify sites (10942)
- 9.1.3 Plan facility (10943)
 - 9.1.3.1 Design facility (10958)
 - 9.1.3.2 Analyze budget (10959)
 - 9.1.3.3 Select property (10960)
 - 9.1.3.4 Negotiate terms for facility (10961)
 - 9.1.3.5 Manage construction or modification to building (10962)
- 9.1.4 Provide workspace and assets (10944)
 - 9.1.4.1 Acquire workspace and assets (10963)
 - 9.1.4.2 Change fit/form/function of workspace and assets (10964)

9.2 Maintain non-productive assets (10938)

- 9.2.1 Move people and assets (10945)
 - 9.2.1.1 Relocate people (10965)
 - 9.2.1.2 Relocate material and tools (10966)
- 9.2.2 Repair workplace and assets (10946)
- 9.2.3 Provide preventative maintenance for workplace and assets (10947)
- 9.2.4 Manage security (10948)
- 9.2.5 Manage facilities operations (10949)

9.3 Obtain, install and plan maintenance for productive assets (10939)

- 9.3.1 Develop ongoing maintenance policies for production assets (10950)
 - 9.3.1.1 Analyze assets and predict maintenance requirements (10967)
 - 9.3.1.2 Develop approach to integrate preventive maintenance into production schedule (10968)
- 9.3.2 Obtain and install equipment (10951)
 - 9.3.2.1 Design engineering solution for the manufacturing process (10969)
 - 9.3.2.2 Procure equipment (10970)
 - 9.3.2.3 Install and commission equipment (10971)

9.4 Dispose of productive and non-productive assets (10940)

- 9.4.1 Develop exit strategy (10952)
- 9.4.2 Perform sale or trade (10953)
- 9.4.3 Perform abandonment (10954)

9.5 Manage physical risk (11207)

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

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

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

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

- 10.2.1 Identify regulatory and stakeholder requirements (11188)
- 10.2.2 Assess future risks and opportunities (11189)
- 10.2.3 Create EHS policy (11190)
- 10.2.4 Record and manage EHS events (11191)

10.3 Train and educate employees (11182)

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

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

- 10.4.1 Manage EHS costs and benefits (11193)
- 10.4.2 Measure and report EHS performance (11194)
 - 10.4.2.1 Implement emergency response program (11196)
 - 10.4.2.2 Implement pollution prevention program (11197)
- 10.4.3 Provide employees with EHS support (11195)

10.5 Ensure compliance with regulations (11184)

- 10.5.1 Monitor compliance (11198)
- 10.5.2 Perform compliance audit (11199)
- 10.5.3 Comply with regulatory stakeholders requirements (11200)

10.6 Manage remediation efforts (11185)

- 10.6.1 Create remediation plans (11201)
- 10.6.2 Contact and confer with experts (11202)
- 10.6.3 Identify/dedicate resources (11203)
- 10.6.4 Investigate legal aspects (11204)
- 10.6.5 Investigate damage cause (11205)
- 10.6.6 Amend or create policy (11206)

11.0 Manage External Relationships (10012)

11.1 Build investor relationships (11010)

- 11.1.1 Plan, build, and manage lender relations (11035)
- 11.1.2 Plan, build, and manage analyst relations (11036)
- 11.1.3 Communicate with shareholders (11037)

11.2 Manage government and industry relationships (11011)

11.2.1 Manage government relations (11038)

- 11.2.1.1 Assess relationships (12869)
- 11.2.1.2 Appoint responsible executives (12870)
- 11.2.1.3 Monitor relationships (12871)
- 11.2.1.4 Receive input from internal advisors (12872)
- 11.2.1.5 Receive input from external advisors (12873)
- 11.2.1.6 Liaise with authorities (12874)

11.2.2 Manage relations with quasi-government bodies (11039)

- 11.2.2.1 Establish relationships with agencies (12875)
- 11.2.2.2 Respond to audit inquiries (12876)
- 11.2.2.3 Maintain documentation of contacts (12877)
- 11.2.2.4 Plan and manage meetings (12878)

11.2.3 Manage relations with trade or industry groups (11040)

- 11.2.3.1 Evaluate the requirements for strategic relationships (12879)
- 11.2.3.2 Monitor the success of the partnerships (12880)
- 11.2.3.3 Extend or change the relationships (12881)
- 11.2.4 Manage lobby activities (11041)

11.3 Manage relations with board of directors (11012)

- 11.3.1 Report results (11042)
- 11.3.2 Report audit findings (11043)

11.4 Manage legal and ethical issues (11013)

- 11.4.1 Create ethics policies (11044)
- 11.4.2 Manage corporate governance policies (11045)

11.4.3 Develop and perform preventative law programs (11046)

11.4.4 Ensure compliance (11047)

- 11.4.4.1 Plan and initiate compliance program (11053)
- 11.4.4.2 Execute compliance program (11054)

11.4.5 Manage outside counsel (11048)

- 11.4.5.1 Assess problem and determine work requirements (11056)
- 11.4.5.2 Engage/retain outside counsel if necessary (11057)
- 11.4.5.3 Receive strategy/budget (11058)
- 11.4.5.4 Receive work product and manage/ monitor case and work performed (11059)
- 11.4.5.5 Process payment for legal services (11060)
- 11.4.5.6 Track legal activity/performance (11061)

11.4.6 Protect intellectual property (11049)

- 11.4.6.1 Manage copyrights and patents (11062)
- 11.4.6.2 Maintain intellectual property rights and restrictions (11063)
- 11.4.6.3 Administer licensing terms (11064)
- 11.4.6.4 Administer options (11065)
- 11.4.7 Resolve disputes and litigations (11050)
- 11.4.8 Provide legal advice/counseling (11051)
- 11.4.9 Negotiate and document agreements/contracts (11052)

11.5 Manage public relations program (11014)

- 11.5.1 Manage community relations (11066)
- 11.5.2 Manage media relations (11067)
- 11.5.3 Promote political stability (11068)
- 11.5.4 Create press releases (11069)
- 11.5.5 Issue press releases (11070)

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12.0 Manage Knowledge, Improvement, and Change (10013)

	Create (11071)		age organizational performance strategy		12.3.2.2	Evaluate existing knowledge management approaches (11111)
	12.1.1	Create et (11075)	nterprise measurement systems model		12.3.2.3 12.3.2.4	Identify gaps and needs (11112) Enhance/modify existing knowledge
			Establish performance measures (11080) Establish performance monitoring frequency (11081)		12.3.2.5	management approaches (11113) Develop new knowledge management approaches (11114)
	10 1 0		Set performance targets (11082)		12.3.2.6	Implement new knowledge management approaches (11115)
			process productivity (11076)	12 3 3	Identify:	and plan KM projects (11097)
			cost effectiveness (11077)	12.0.0		Identify strategic opportunities to apply KM
			staff efficiency (11078)			approach(es) (11116)
40.0			cycle time (11079)		12.3.3.2	Identify KM requirements and objectives (11117)
12.2		-	formance (11072)		12.3.3.3	· · · ·
			performance assessments (11083)		. 2.0.0.0	(11118)
		-	benchmarking capabilities (11084)		12.3.3.4	Identify appropriate KM methodologies
	12.2.3		process benchmarking (11085) Compile & update list of processes &			(e.g., self-service, communities, transfer, etc.) (11119)
			organizations to benchmark (11089) Establish benchmarks (11090)		12.3.3.5	Create business case and obtain funding (11120)
			Measure performance against benchmarks (11091)		12.3.3.6	Develop project measures and indicators (11121)
	12.2.4		competitive benchmarking (11086)	12.3.4		ind launch KM projects (11098)
		12.2.4.1	Compile & update list of processes &		12.3.4.1	Design process for knowledge sharing,
		12212	organizations to benchmark (11092) Establish benchmarks (11093)		10010	capture, and use (11122)
			Measure performance against benchmarks			Define roles and resources (11123) Identify specific IT requirements (11124)
	1005		(11094)		12.3.4.4	Create training and communication plans
	12.2.5		gap analysis to understand the need for		12215	(11125)
	12 2 6		legree of change needed (11087)			Develop change management plans (11126) Design recognition and reward approaches
			need for change (11088) rise-wide knowledge management (KM)			(11127)
	capab	ility (1107	3)		12.3.4.8	Design and plan launch of KM project (11128) Deploy the KM project (11129)
	12.3.1		KM strategy (11095)	12.3.5	Manage	the KM project life cycle (11099)
			Develop governance model (11100) Establish a central KM core group (11101)		12.3.5.1	Assess alignment with business goals (11130)
		12.3.1.2	Define roles and accountability of the core		12.3.5.2	Evaluate impact of KM (strategy and projects) on measures and outcomes (11131)
		12.0.1.0	group versus operating units (11102)		12.3.5.3	Promote and sustain activity and involvement
		12.3.1.4	Develop funding models (11103)		12.0.0.0	(11132)
			Identify links to key initiatives (11104)		12.3.5.4	Realign and refresh KM strategy and
		12.3.1.6	Develop core KM methodologies (11105)			approaches (11133)
		12.3.1.7	Assess IT needs and engage IT function	12.4 Mana	ao obona	(11074)
		12 2 1 0	(11106)		•	
		12.3.1.8	Develop training and communication plans (11107)	12.4.1	12.4.1.1	change (11134) Select process improvement methodology
		12.3.1.9	Develop change management approaches (11108)		12.4.1.2	(11138) Assess readiness for change (11139)
		12.3.1.10	Develop strategic measures and indicators			Determine stakeholders (11140)
			(11109)			Engage/Identify champion (11141)
	12.3.2		nowledge management capabilities (11096)			Form design team (11142)
		12.3.2.1	Assess maturity of existing KM initiatives			Define scope (11143)
			(11110)			Understand current state (11144)
					12.4.1.8	Define future state (11145)

		Conduct risk analysis (11146)			Establish/Clarify new roles (11158)
	12.4.1.10	Assess cultural issues (11147)	10 / 0		Identify budget/roles (11159)
	10 / 1 11	Fatablish associatability for about	12.4.3	•	nt change (11136)
		Establish accountability for change management (11148)		12.4.3.1	Create commitment for improvement/change (11160)
	12.4.1.12	Identify barriers to change (11149)		12.4.3.2	Reengineer business processes and systems
		Determine change enablers (11150)			(11161)
	12.4.1.14	Identify resources and develop measures		12.4.3.3	Support transition to new roles or exit
		(11151)			strategies for incumbents (11162)
12.4.2	Design th	ne change (11135)		12.4.3.4	Monitor change (11163)
	12.4.2.1	Assess connection to other initiatives (11152)	12.4.4	Sustain i	mprovement (11137)
	12.4.2.2	Develop change management plans (11153)		12.4.4.1	Monitor improved process performance
	12.4.2.3	Develop training plan (11154)			(11164)
	12.4.2.4	Develop communication plan (11155)		12.4.4.2	Capture and reuse lessons learned from
	12.4.2.5	Develop rewards/incentives plan (11156)			change process (11165)
	12.4.2.6	Establish metrics (11157)		12.4.4.3	Take corrective action as necessary (11166)



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