7.1	7.1 PLANNING REQUIREMENTS AND GUIDELINES								
1	SHL	Establish a product realization planning process.	TODO	DONE	N/A	A product starts out as an idea. The idea is <i>realized</i>			
2	SHL	Plan the realization of your organization's products.	TODO	DONE	N/A	by following a set of product realization processes. Product realization refers to			
3	SHL	Use your planning process to set your product quality objectives.	TODO	DONE	N/A	all of the processes that are used to bring products into being. (When ISO uses the			
4	SHL	Use your planning process to specify product quality requirements.	TODO	DONE	N/A	term <i>product</i> , they're also talking about <i>service</i> .)			
5	SHL	Use your planning process to identify your product realization needs.	TODO	DONE	N/A	A document that describes the QMS			
6	SHL	Determine the documents that you will need in order to realize products.	TODO	DONE	N/A	processes and resources that will be applied to a specific product, project,			
7	SHL	Determine the records that you will need in order to realize products.	TODO	DONE	N/A	or contract is called a quality plan.			
8	SHL	Select the records needed to prove that products meet requirements.	TODO	DONE	N/A	Section 7 requirements may be excluded if doing so does not undermine			
9	SHL	Select the records needed to prove that processes meet requirements.	TODO	DONE	N/A	your ability or willingness to meet product requirements. That's why we've added			
10	SHL	Establish records to support your product realization processes.	TODO	DONE	N/A	an N/A column.			
11	SHL	Determine the criteria that you will need to decide if products are acceptable.	TODO	DONE	N/A				
12	SHL	Clarify and establish your organization's product acceptance criteria.	TODO	DONE	N/A				
13	SHL	Determine the processes that you will need in order to realize products.	TODO	DONE	N/A				
14	SHL	Ensure that these processes are integrated with other QMS processes.	TODO	DONE	N/A				
15	SHL	Determine the methods that you will need to control product quality.	TODO	DONE	N/A	Verification uses objective evidence to confirm that			
16	SHL	Identify the verification methods that you will need to control product quality.	TODO	DONE	N/A	requirements are met. Validation uses objective evidence to confirm that			
17	SHL	Identify the validation methods that you will need to control product quality.	TODO	DONE	N/A	the requirements which define an intended use or application have been met.			
18	SHL	Identify the monitoring methods that you will need to control product quality.	TODO	DONE	N/A	Inspections use observation, measurement, testing and			
19	SHL	Identify the measurement methods that you will need to control product quality.	TODO	DONE	N/A	judgment to evaluate conformity.			
20	SHL	Identify the inspection methods that you will need to control product quality.	TODO	DONE	N/A	To test means to use a procedure to determine or			
21	SHL	Identify the testing methods that you will need to control product quality.	TODO	DONE	N/A	to identify the characteristics of something.			

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22	SHL	Determine the resources that you will need to realize products.	TODO	DONE	N/A	
23	SHL	Produce product realization planning outputs.	TODO	DONE	N/A	A note to section 7.1 says that you may use
24	SHL	Prepare outputs that are suitable and consistent with your organization's methods.	TODO	DONE	N/A	the approach described in section 7.3 to develop your product realization
25	SHL	Develop your product realization processes.	TODO	DONE	N/A	processes (if you find it helpful).
7.1.1	L USE	LIFE CYCLE MODELS TO PLAN WORK				
26	SHD	Select suitable life cycle models to manage software design and development.	TODO	DONE	N/A	Section 7.1.1 says: "ISO 9001:2008 is
27	SHD	Consider the nature of your project when you select models and methods.	TODO	DONE	N/A	intended for application irrespective of the life cycle models used and is
28	SHD	Consider project size and complexity when you select models and methods.	TODO	DONE	N/A	not intended to indicate a specific life cycle model or process sequence."
29	SHD	Consider tasks and activities when you select models and methods.	TODO	DONE	N/A	ISO 9001:2008 does not force you to use a
30	SHD	Consider the nature of your product when you select models and methods.	TODO	DONE	N/A	particular software life cycle model or expect you to follow a particular
31	SHD	Consider risks and safety concerns when you select models and methods.	TODO	DONE	N/A	process sequence. You may use any suitable approach.
32	SHD	Consider software products that could cause injury, damage, or destruction.	TODO	DONE	N/A	Section 7.1.1 says: "Design and development
33	SHD	Make sure that design specifications address potential software failure conditions.	TODO	DONE	N/A	can be an evolutionary process and procedures may therefore need to be
34	SHD	Specify requirements that expect immunity from potential failure conditions.	TODO	DONE	N/A	changed or updated as the project progresses, after consideration of
35	SHD	Specify requirements that expect a response to potential failure conditions.	TODO	DONE	N/A	changes to related activities and tasks."
36	SHD	Use suitable life cycle models to plan and perform software design and development.	TODO	DONE	N/A	
37	SHD	Use suitable life cycle models to plan your processes, activities, and tasks.	TODO	DONE	N/A	
38	SHD	Use your life cycle models to develop software development plans.	TODO	DONE	N/A	
39	SHD	Use your plans to describe the software products that will be developed.	TODO	DONE	N/A	
40	SHD	Specify who will develop them and when this work will be done.	TODO	DONE	N/A	
41	SHD	Use your plans to describe how software products will be developed.	TODO	DONE	N/A	
42	SHD	Use your plans to describe how products will be assessed.	TODO	DONE	N/A	

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43	SHD	Use your plans to describe how products will be maintained.	TODO	DONE	N/A					
44	SHD	Use suitable life cycle models to perform processes, activities, and tasks.	TODO	DONE	N/A					
7.1.2	7.1.2 CARRY OUT SOFTWARE QUALITY PLANNING									
45	SHD	Plan software projects, products, and contracts.	TODO	DONE	N/A	The purpose of your quality planning should				
46	SHD	Clarify quality needs and requirements.	TODO	DONE	N/A	be to figure out how to apply your quality management system to				
47	SHD	Clarify product oriented quality needs and requirements.	TODO	DONE	N/A	your software projects, products, and contracts.				
48	SHD	Clarify process oriented quality needs and requirements.	TODO	DONE	N/A	Your quality planning activities will generate a quality plan. Your plan				
49	SHD	Figure out how QMS should be tailored.	TODO	DONE	N/A	could be a single document, several documents, or part of another larger document.				
50	SHD	Figure out how QMS can be applied to projects, products, and contracts.	TODO	DONE	N/A	Also see ISO/IEC 12207 section 6.3.1 on project				
51	SHD	Address quality needs and requirements.	TODO	DONE	N/A	planning and section 7.2 on software support.				
52	SHD	Address the need to have suitable procedures.	TODO	DONE	N/A	ISO/IEC 12207 treats quality planning and product development				
53	SHD	Address the need to have appropriate QMS procedures and instructions.	TODO	DONE	N/A	planning as a single planning activity which results in the creation of a				
54	SHD	Use procedures and instructions that respect the scope of your quality manual.	TODO	DONE	N/A	project management plan.				
55	SHD	Use procedures and instructions that acknowledge any official exclusions.	TODO	DONE	N/A					
56	SHD	Address the need to have project-specific procedures and instructions.	TODO	DONE	N/A					
57	SHD	Address the need to have project-specific software test specifications.	TODO	DONE	N/A					
58	SHD	Use suitable project-specific test plans, designs, cases, and procedures.	TODO	DONE	N/A					
59	SHD	Use suitable unit, integration, system, and acceptance testing procedures.	TODO	DONE	N/A					
60	SHD	Address the need to have effective configuration management procedures.	TODO	DONE	N/A	See section 7.5.3, below.				
61	SHD	Address the need to employ reusable assets.	TODO	DONE	N/A					
62	SHD	Employ reusable tools, methods, and life cycle models.	TODO	DONE	N/A					
63	SHD	Employ reusable programming language conventions.	TODO	DONE	N/A					

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64	SHD	Employ reusable software libraries and frameworks.	TODO	DONE	N/A	
65	SHD	Address the need to perform monitoring activities.	TODO	DONE	N/A	
66	SHD	Address the need to carry out suitable measurement activities.	TODO	DONE	N/A	
67	SHD	Address the need to approve process outputs.	TODO	DONE	N/A	
68	SHD	Make people responsible for approving outputs for subsequent use.	TODO	DONE	N/A	
69	SHD	Address the need to use competent personnel.	TODO	DONE	N/A	
70	SHD	Clarify your software training needs and requirements.	TODO	DONE	N/A	
71	SHD	Schedule suitable training before skills are needed.	TODO	DONE	N/A	
72	SHD	Teach people how to use tools and techniques.	TODO	DONE	N/A	
73	SHD	Address the need to control software quality.	TODO	DONE	N/A	
74	SHD	Establish specific software review methods and procedures.	TODO	DONE	N/A	See section 7.3.4, below.
75	SHD	Establish specific software verification methods and procedures.	TODO	DONE	N/A	See section 7.3.5, below.
76	SHD	Establish specific software validation methods and procedures.	TODO	DONE	N/A	See section 7.3.6, below.
77	SHD	Address the need to manage and control changes.	TODO	DONE	N/A	
78	SHD	Address the need to manage and control resource changes.	TODO	DONE	N/A	
79	SHD	Address the need to manage and control schedule changes.	TODO	DONE	N/A	
80	SHD	Address the need to manage and control contractual changes.	TODO	DONE	N/A	
81	SHD	Address the need to maintain suitable records.	TODO	DONE	N/A	See section 4.2.4, below.
82	SHD	Establish software quality objectives.	TODO	DONE	N/A	
83	SHD	Clarify limited quality objectives for limited-purpose software.	TODO	DONE	N/A	
84	SHD	Plan the testing of this software to ensure that it fulfils its limited purpose.	TODO	DONE	N/A	
85	SHD	Define each software development stage.	TODO	DONE	N/A	
86	SHD	Define each design and development stage before you begin work on that stage.	TODO	DONE	N/A	

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87	SHD	Establish criteria that determines when each project stage starts and finishes.	TODO	DONE	N/A	
88	SHD	Include all related plans and procedures.	TODO	DONE	N/A	For more information, see ISO/IEC 25010:2011
89	MAY	Include or refer to generic or project, product, or contract-specific procedures.	TODO	DONE	N/A	on systems and software quality requirements and evaluation (SQuaRE), and
90	SHD	Include or refer to your product development plans, procedures, and policies.	TODO	DONE	N/A	system and software quality models; ISO/IEC
91	MAY	Review plans for projects, products, and contracts.	TODO	DONE	N/A	25001:2007 on systems and software quality requirements and
92	MAY	Ask all participating organizations to review your software quality plans.	TODO	DONE	N/A	evaluation (SQuaRE), and planning and management; and
93	MAY	Approve plans for projects, products, and contracts.	TODO	DONE	N/A	ISO/IEC 16326:2009 on life cycle processes, and project management.
94	MAY	Ask all participating organizations to agree before work is carried out.	TODO	DONE	N/A	, , , , , , ,
7.2	CUST	OMER REQUIREMENTS AND GUIDELINES				
7.2.1	L DET	ERMINE REQUIREMENTS RELATED TO PRODUCTS				
95	SHL	Determine your customers' requirements.	TODO	DONE	N/A	
96	SHL	Identify your customers' product requirements.	TODO	DONE	N/A	
97	SHL	Identify your customers' delivery requirements.	TODO	DONE	N/A	
98	SHL	Identify your customers' post-delivery requirements.	TODO	DONE	N/A	
99	SHL	Identify customers' warranty requirements.	TODO	DONE	N/A	
100	SHL	Identify customers' maintenance requirements.	TODO	DONE	N/A	
101	SHL	Identify customers' contractual requirements.	TODO	DONE	N/A	
102	SHL	Identify supplementary service requirements.	TODO	DONE	N/A	
103	SHL	Identify customers' recycling requirements.	TODO	DONE	N/A	
104	SHL	Identify customers' final disposal requirements.	TODO	DONE	N/A	
105	SHL	Determine your intended use requirements.	TODO	DONE	N/A	
106	SHL	Determine your legal product requirements.	TODO	DONE	N/A	

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107	SHL	Identify product requirements imposed by regulators.	TODO	DONE	N/A					
108	SHL	Identify product requirements imposed by statute.	TODO	DONE	N/A					
109	SHL	Determine your organization's requirements.	TODO	DONE	N/A					
7.2.1	7.2.1.1 DETERMINE CUSTOMER-RELATED REQUIREMENTS									
110	MAY	Establish methods for managing software requirements.	TODO	DONE	N/A					
111	MAY	Establish methods for developing software requirements.	TODO	DONE	N/A					
112	MAY	Establish methods for identifying software requirements.	TODO	DONE	N/A					
113	MAY	Establish methods for identifying your customer's software requirements.	TODO	DONE	N/A					
114	MAY	Establish methods for clarifying the customer's operational environment.	TODO	DONE	N/A					
115	MAY	Establish methods for identifying your organization's software requirements.	TODO	DONE	N/A					
116	MAY	Establish methods for clarifying your organization's operational environment.	TODO	DONE	N/A					
117	MAY	Establish methods for allocating software requirements.	TODO	DONE	N/A					
118	MAY	Establish methods for allocating requirements for system specifications.	TODO	DONE	N/A					
119	MAY	Establish methods for allocating requirements between software and hardware.	TODO	DONE	N/A					
120	MAY	Establish methods for ensuring that interface specifications are formulated.	TODO	DONE	N/A					
121	MAY	Establish methods for formulating software requirements.	TODO	DONE	N/A					
122	MAY	Establish methods for ensuring that requirements are clearly specified.	TODO	DONE	N/A					
123	MAY	Establish methods for ensuring that misunderstandings are avoided.	TODO	DONE	N/A					
124	MAY	Establish methods for defining terms and providing background information.	TODO	DONE	N/A					
125	MAY	Establish methods for ensuring that specifications facilitate product acceptance.	TODO	DONE	N/A					
126	MAY	Establish methods for evaluating software requirements.	TODO	DONE	N/A					
127	MAY	Establish methods for evaluating software prototypes or demonstrations.	TODO	DONE	N/A					

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128	MAY	Establish methods for reviewing software requirements.	TODO	DONE	N/A	
129	MAY	Establish methods for reviewing requirements and recording results.	TODO	DONE	N/A	
130	MAY	Establish methods for approving software requirements.	TODO	DONE	N/A	
131	MAY	Establish methods for agreeing on software requirements.	TODO	DONE	N/A	
132	MAY	Establish methods for obtaining official customer approval.	TODO	DONE	N/A	
133	MAY	Establish methods for authorizing changes in requirements.	TODO	DONE	N/A	
134	MAY	Establish methods for tracking changes in software requirements.	TODO	DONE	N/A	
135	MAY	Establish methods for tracking changes during iterative development.	TODO	DONE	N/A	
136	MAY	Establish methods for controlling software requirements.	TODO	DONE	N/A	
137	MAY	Establish methods for controlling changes to software requirements.	TODO	DONE	N/A	
138	MAY	Establish methods for controlling changes during development projects.	TODO	DONE	N/A	
139	MAY	Establish methods for amending contracts whenever requirements change.	TODO	DONE	N/A	
140	MAY	Establish methods for tracing software requirements.	TODO	DONE	N/A	
141	MAY	Establish methods for tracing requirements throughout development life cycle.	TODO	DONE	N/A	See section 7.5.3, below.
142	MAY	Establish methods for tracing software requirements to final software products.	TODO	DONE	N/A	
143	MAY	Manage your organization's software requirements.	TODO	DONE	N/A	
144	MAY	Clarify requirements for your software.	TODO	DONE	N/A	
145	MAY	Clarify relevant operational environments.	TODO	DONE	N/A	
146	MAY	Clarify legal obligations for your software.	TODO	DONE	N/A	
147	MAY	Clarify regulatory and statutory requirements.	TODO	DONE	N/A	
148	MAY	Clarify required software characteristics.	TODO	DONE	N/A	
149	MAY	Clarify software reliability requirements.	TODO	DONE	N/A	
150	MAY	Clarify software efficiency requirements.	TODO	DONE	N/A	

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7. REALIZATION REQUIREMENTS AND GUIDELINES

151	MAY	Clarify software functionality requirements.	TODO	DONE	N/A	
152	MAY	Clarify software maintainability requirements.	TODO	DONE	N/A	
153	MAY	Clarify software traceability requirements.	TODO	DONE	N/A	
154	MAY	Clarify software portability requirements.	TODO	DONE	N/A	
155	MAY	Clarify software usability requirements.	TODO	DONE	N/A	
156	MAY	Clarify software security requirements.	TODO	DONE	N/A	
157	MAY	Clarify software safety requirements.	TODO	DONE	N/A	
158	MAY	Specify requirements for your software.	TODO	DONE	N/A	
159	MAY	Specify requirements for software that will be developed as part of a contract.	TODO	DONE	N/A	
160	MAY	Specify requirements for software that will be produced for a market sector.	TODO	DONE	N/A	
161	MAY	Specify requirements for software that will be used to support processes.	TODO	DONE	N/A	
162	MAY	Specify requirements for software that will be embedded in a system.	TODO	DONE	N/A	
163	MAY	Approve requirements for your software.	TODO	DONE	N/A	
164	MAY	Control requirements for your software.	TODO	DONE	N/A	

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