ISO 9001:2000 to CMMI v1.2 Map

Table 1: ISO 9001:2000 Section 4, Quality management system

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
4	**Quality management system**				
4.1	**General requirements**				
	Establish QMS	All PAs	GP 2.1	100	
		OPD	SP 1.1	100	
		OPD	SP 1.2	100	
		OPD	SP 1.3	100	
		OPF	SP 3.1	100	
		OPF	SP 3.2	100	
		OPF	SP 3.3	100	
		OPF	SP 3.4	100	
	Identify processes	OPD	SP 1.1	100	
	Determine sequence	OPD	SP 1.1	100	
	Effective operation	OID	SP 2.1	30	
		OPF	SP 3.3	30	
	Resources	All PAs	GP 2.3	100	
	Monitor processes	All PAs	GP 2.8	100	
		All PAs	GP 2.9	100	
	Implement actions	OPF	SP 2.1	100	
		OPF	SP 2.2	100	
	Manage using ISO standard	All PAs	GP 2.1	60	Organizational policies must address ISO 9001
	Control outsourced processes	SAM	SP 1.3	100	
		SAM	SP 2.1	100	
		SAM	SP 2.2	100	
	Outsourced process control in QMS	SAM	GP 2.2	100	
		SAM	SP 1.3	100	
		SAM	SP 2.2	100	
		SAM	SP 2.3	100	
4.2	**Documentation requirements**				
4.2.1	**General**				
	Document quality policy	All PAs	GP 2.1	100	
	Document quality manual	OPD	SP 1.1	100	
		OPD	SP 1.2	100	
		OPD	SP 1.3	100	
	Document procedures	OPD	SP 1.1	100	
		OPD	SP 1.2	100	
		OPD	SP 1.3	100	
	Records	PP	SP 2.3	30	
		PPQA	SP 2.2	100	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
4.2.2	**Quality Manual**				
	Establish Quality Manual				
	QMS scope	OPD	SP 1.1	60	
	Establish QMS procedures	All PAs	GP 2.2	60	
	Describe process interaction	OPD	SP 1.1	100	See subpractice 3
4.2.3	**Control of documents**				
	Control required documents	All PAs PMC PP	GP 2.6 SP 1.4 SP 2.3	100 100 100	
	Control records	PMC PP	SP 1.4 SP 2.3	60 60	
	Document control procedure	CM	GP 2.2	60	
	Approve documents	CM	GP 2.2	60	
	Review & update	CM	SP 2.2	30	
	Identify changes	CM	SP 2.2	100	
	Relevant versions available	All PAs	GP 2.6	100	
	Identifiable documents			0	
	Control external documents	CM	SP 1.1	100	
	Obsolete documents	CM	SP 3.2	30	
	Identify documents	CM	SP 1.1	100	
4.2.4	**Control of records**				
	Records provide evidence of conformity	PPQA PP	SP 2.2 SP 2.3	100 60	ISO 9001 requirement partially addressed. Conformity is generally addressed in SCAMPI.
	Records identifiable			0	
	Record control procedure	All PAs CM	GP 2.6 GP 2.2	60 100	

Table 2: ISO 9001:2000 Section 5, Management responsibility

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
5	**Management responsibility**				
5.1	**Management commitment**				
	Communicate importance	All PAs	GP 2.1	60	
	Quality policy	All PAs	GP 2.1	60	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Quality objectives	All PAs	GP 2.10	100	This addresses evidence of commitment. Specific objectives are addressed in section 5.4.1
	Management review	All PAs	GP 2.10	100	
	Resource availability	All PAs	GP 2.3	100	
5.2	**Customer focus**				
	Determine customer requirements	RD RD REQM REQM	GP 2.1 GP 2.10 GP 2.1 GP 2.10	100 100 100 100	CMMI does not focus on enhancing customer satisfaction
5.3	**Quality policy**				
	Top management quality policy responsibility				
	Appropriate to organization	All PAs OPF	GP 2.1 SP 1.1	100 100	
	Commitment to comply	OPF	GP 2.1	100	
	Framework for quality objectives	MA OPF OPF PPQA	GP 2.10 GP 2.1 GP 2.10 GP 2.10	100 100 100 100	
	Communicated	OPF	GP 2.1	100	
5.4	**Planning**				
5.4.1	**Quality objectives**				
	Quality objectives established	MA MA OPF OPF OPP OPP QPM QPM	GP 2.10 SP 1.1 GP 2.10 SP 1.1 GP 2.10 SP 1.3 GP 2.10 SP 1.1	100 100 100 100 100 100 100 100	
	Measurable objectives	OPP QPM	SP 1.3 SP 1.1	100 100	
5.4.2	**Quality management system planning**				
	Plan to meet quality objectives	OPD OPF	GP 2.10 GP 2.10	100 100	
	Maintain QMS integrity	OPD	GP 2.6	60	
5.5	**Responsibility, authority and communication**				
5.5.1	**Responsibility and authority**				
	Top management defines responsibility	All PAs	GP 2.4	100	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
5.5.2	**Management representative**				
	Appoint member of management	OPF	GP 2.4	100	
	Establish QMS processes	OPD OPF	GP 2.4 GP 2.4	100 100	
	Report performance of QMS	OPF	GP 2.10	100	
	Customer requirement awareness	RD REQM	GP 2.10 GP 2.10	60 60	
5.5.3	**Internal communication**				
	Establish communication processes	OPD OPF OPF	GP 2.10 GP 2.1 GP 2.10	100 100 100	
5.6	**Management review**				
5.6.1	**General**				
	Review QMS	OPD OPF	GP 2.10 GP 2.10	100 100	
	Assess improvement opportunities	OPF OPF OPF	GP 2.10 SP 1.2 SP 1.3	100 100 100	
	Maintain records	OPD OPF	GP 2.6 GP 2.6	60 60	
5.6.2	**Review input**				
	Audit	PPQA	GP 2.10	100	
	Customer			0	
	Conformity	PPQA	GP 2.10	100	
	Preventive action	CAR	GP 2.10	60	
	Follow-up	All PAs	GP 2.10	100	
	QMS plans	OPF	GP 2.10	100	
	Improvement	OID OPF	GP 2.10 GP 2.10	100 100	
5.6.3	**Review output**	-	-		
	Improve effectiveness	OPF	GP 2.10	60	
	Improve product	All PAs	GP 2.10	60	
	Resources	All PAs All PAs	GP 2.3 GP 2.10	100 100	

Table 3: ISO 9001:2000 Section 6, Resource Management

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
6	**Resource Management**				
6.1	**Provision of resources**				
	Implement & maintain QMS	All PAs OPD	GP 2.3 SP 1.6	100 60	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Enhance customer satisfaction	All PAs	GP 2.3	30	Customer satisfaction is not explicitly addressed but is implied through many PAs
6.2	**Human resources**				
6.2.1	**General**				
	Staff has needed skills	All PAs OT	GP 2.5 All SPs	100 100	
6.2.2	**Competence, awareness and training**				
	Determine competence	OT OT PP	SP 1.1 SP 1.2 SP 2.5	100 30 100	
	Provide training	All PAs OT OT OT	GP 2.5 SP 1.3 SP 1.4 SP 2.1	100 100 100 100	
	Evaluate effectiveness	OT	SP 2.3	100	
	Ensure awareness of importance	IPM	SP 3.1	100	Uses IPPD
	Maintain records	OT	SP 2.2	100	
6.3	**Infrastructure**				
	Provide services and equipment	All PAs IPM OPD PI PP VAL VER	GP 2.3 SP 1.3 SP 1.6 SP 1.2 SP 2.4 SP 1.2 SP 1.2	100 100 100 100 100 100 100	
6.4	**Work environment**				
	Maintain environment to meet requirements	All PAs IPM OPD PI PP VAL VER	GP 2.3 SP 1.3 SP 1.6 SP 1.2 SP 2.4 SP 1.2 SP 1.2	100 100 100 100 100 100 100	

Table 4: ISO 9001:2000 Section 7, Product realization

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
7	**Product realization**				
7.1	**Planning product realization**				

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Develop needed processes	OPD	SP 1.1	100	
		OPD	SP 1.2	100	
		OPD	SP 1.3	100	
	Planning is consistent with other processes	All PAs	GP 2.2	100	
		All PAs	GP 3.1	100	
		IPM	SP 1.1	100	
		IPM	SP 1.4	100	
		OPD	SP 1.1	100	
		OPD	SP 1.2	100	
		OPD	SP 1.3	100	
		PP	SP 2.7	100	
		PP	SP 3.1	100	
	Quality objectives	RD	SP 1.2	100	
		RD	SP 2.1	100	
		RD	SP 2.3	100	
		RD	SP 3.2	100	
		QPM	SP 1.1	100	
	Establish processes	IPM	SP 1.1	100	
		PP	GP 2.2	100	
	Determine activities	IPM	SP 1.1	100	
		PP	SP 1.3	100	
	Determine records	All PAs	GP 2.6	100	
		PP	SP 2.3	100	
	Plans in appropriate format	All PAs	GP 2.2	100	
		PP	SP 2.7	100	
7.2	**Customer-related processes**				
7.2.1	**Determination of requirements related to the product**				
	Customer requirements	RD	SP 1.1	100	
	Unstated requirements	RD	SP 1.2	100	
		RD	SP 2.1	100	
		RD	SP 2.3	100	
		RD	SP 3.1	100	
		RD	SP 3.2	100	
	Statutory requirements	RD	SP 1.1	100	
	Additional requirements			0	
7.2.2	**Review of requirements related to the product**				
	Organization reviews requirements	RD	SP 3.3	100	
		RD	SP 3.4	100	
		RD	SP 3.5	100	
		RD	GP 2.7	100	
		REQM	SP 1.1	100	
		REQM	GP 2.7	100	
	Review before commitment	REQM	SP 1.2	100	
	Requirements are defined	RD	SP 3.3	100	
		REQM	SP 1.1	100	
	Differing requirements	REQM	SP 1.3	30	
	Able to meet requirements	RD	SP 3.3	30	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Records are kept	RD REQM	GP 2.6 GP 2.6	100 100	
	Confirm understanding of requirements	RD RD RD REQM	SP 1.2 SP 2.1 SP 3.5 SP 1.1	100 30 100 100	
	Keep documents current when requirements change	REQM REQM	SP 1.3 SP 1.5	100 100	
7.2.3	**Customer communication**				
	Communicate product information	RD RD RD RD RD REQM	GP 2.7 SP 1.1 SP 1.2 SP 3.1 SP 3.5 SP 1.1	100 100 100 100 100 100	
	Inquiries	IPM	SP 2.1	30	
	Customer feedback	All PAs	GP 2.7	30	Customer complaints not explicitly addressed in CMMI
7.3	**Design and development**				
7.3.1	**Design and development planning**				
	Plan design and development	IPM IPM PI PP TS VAL VER	SP 1.4 SP 1.5 SP 1.1 SP 2.7 GP 2.2 SP 1.1 SP 1.1	100 100 100 100 100 100 100	This mapping is guided by material in ISO 9004 and ISO 90003.
	Determine stages	IPM PI PP TS	SP 1.1 GP 2.2 SP 1.3 GP 2.2	100 100 100 100	
	Determine verification & validation	VAL VER	SP 1.1 SP 1.1	100 100	
	Determine responsibility	PI TS	GP 2.4 GP 2.4	100 100	
	Manage interfaces	IPM IPM IPM IPM IPM PI RD TS VAL VER	SP 2.1 SP 2.2 SP 2.3 SP 3.5 GP 2.7 GP 2.7 GP 2.7 GP 2.7 GP 2.7 GP 2.7	100 100 100 100 100 100 100 100 100 100	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Update plans during development	IPM IPM PP	SP 1.1 SP 1.4 All SPs	100 100 100	
7.3.2	**Design and development inputs**				
	Determine inputs to development processes	RD RD RD RD	SP 1.1 SP 1.2 SP 2.1 SP 3.2	100 100 100 100	
	Functional requirements	RD RD	SP 2.1 SP 3.2	100 100	
	Statutory requirements	RD RD	SP 1.1 SP 1.2	100 100	
	Similar designs	IPM	SP 1.2	60	
	Other requirements	RD RD RD RD	SP 1.2 SP 2.1 SP 2.3 SP 3.1	100 100 100 100	
	Review inputs	RD RD RD	SP 3.3 SP 3.4 SP 3.5	100 60 100	
	Requirements are consistent and clear	RD RD RD	SP 3.3 SP 3.4 SP 3.5	100 100 100	
7.3.3	**Design and development outputs**				
	Outputs are verifiable	TS TS TS TS TS	SP 2.1 SP 2.2 SP 2.3 SP 3.1 SP 3.2	100 100 100 100 100	
	Outputs approved	TS TS	SP 3.1 SP 3.2	30 30	
	Meet input requirements	TS TS TS TS TS	SP 1.1 SP 1.2 SP 2.1 SP 3.1 SP 3.2	100 100 100 100 100	
	Provide information	TS TS TS TS	SP 1.1 SP 1.2 SP 2.2 SP 2.4	30 30 100 100	
	Acceptance criteria	VAL VER	SP 1.3 SP 1.3	60 60	
	Specify characteristics	TS	SP 2.2	60	
7.3.4	**Design and development review**				
	Development reviewed and evaluated	PMC PMC PMC	SP 1.6 SP 1.7 SP 2.1	100 100 100	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Identify problems	PMC PMC PMC PMC	SP 1.2 SP 1.6 SP 1.7 SP 2.1	60 100 100 100	
	Appropriate functions participate in reviews	IPM IPM IPM PMC	SP 2.1 SP 2.2 SP 2.3 GP 2.7	100 30 30 100	
	Records of review are kept	IPM PMC	GP 2.6 GP 2.6	60 100	
7.3.5	**Design and development verification**				
	Ensure requirements are met	VER	All SPs	100	
	Keep verification records	VER	GP 2.6	100	
7.3.6	**Design and development validation**				
	Validation follows plans	VAL	All SPs	100	
	Validate before delivery	RD	SP 3.5	100	
	Keep validation records	RD VAL	GP 2.6 GP 2.6	100 100	
7.3.7	**Control of design and development changes**				
	Identify changes	CM PI TS	SP 3.1 GP 2.6 GP 2.6	100 60 60	
	Review and approve changes	CM CM	SP 2.1 SP 2.2	100 100	
	Evaluate effect of changes	CM CM	SP 2.1 SP 2.2	100 100	
	Keep records of changes	CM PI TS	SP 3.1 GP 2.6 GP 2.6	100 60 60	
7.4	**Purchasing**				
7.4.1	**Purchasing process**				
	Purchased product meets requirements	PI SAM	SP 3.1 SP 2.4	100 100	
	Control of supplier depends on product	SAM SAM SAM TS	SP 2.1 SP 2.2 SP 2.3 SP 2.4	100 100 100 30	
	Suppliers selected based on ability	SAM	SP 1.2	100	
	Selection criteria established	SAM	SP 1.2 SP 1.3	100 100	
	Records of evaluations kept	SAM	GP 2.6	100	
7.4.2	**Purchasing information**				
	Product requirements described	SAM TS	SP 1.3 SP 1.1	100 100	
	Approval requirements	SAM	SP 1.3	100	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Personnel	SAM	SP 1.3	60	
	QMS	SAM	SP 1.3	60	
	Adequate requirements described	SAM	SP 1.3	100	
7.4.3	**Verification of purchased product**				
	Ensure product meets requirements	SAM SAM SAM SAM SAM VER	SP 1.3 SP 2.1 SP 2.2 SP 2.3 SP 2.4 SP 3.1	100 100 100 100 100 60	
	Supplier site verification	SAM	SP 1.3	60	
7.5	**Production and service provision**				
7.5.1	**Control of production and service provision**				
	Plan & implement service provision	PI PI PI PI PI TS TS TS	GP 2.2 SP 3.1 SP 3.2 SP 3.3 SP 3.4 GP 2.2 SP 3.1 SP 3.2	100 100 100 100 100 100 100 100	
	Product characteristics	PI TS	SP 2.1 SP 2.2	100 100	
	Work instructions	PI TS	SP 1.3 GP 2.2	100 100	
	Equipment	PI TS	GP 2.3 GP 2.3	100 100	
	Availability of monitoring devices	PI PI TS TS	GP 2.3 GP 2.8 GP 2.3 GP 2.8	100 100 100 100	
	Implementation of monitoring	PI TS	GP 2.8 GP 2.8	100 100	
	Release activities	CM PI	SP 1.3 SP 3.4	60 60	CMMI doesn't address post-delivery activities
7.5.2	**Validation of processes for production and service provision**				
	Validate production & service processes	VAL	All SPs	100	
	Demonstrate ability to meet planned results	VAL	All SPs	100	
	Establish review criteria	VAL	SP 1.3	30	
	Approve equipment	VAL	SP 1.2	100	
	Use specific methods	VAL	SP 1.3	100	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Records	VAL VAL	GP 2.6 SP 2.2	100 100	
	Revalidation	VAL	SP 2.1	100	
7.5.3	**Identification and traceability**				
	Identify products	CM CM CM	SP 1.1 SP 2.1 SP 2.2	100 60 100	
	Identify product status	MA PI PI TS VAL VAL VER VER	SP 2.4 GP 2.8 SP 3.3 GP 2.8 GP 2.8 SP 2.2 GP 2.8 SP 3.2	100 100 100 100 100 100 100 100	
	Control traceability	CM REQM	SP 3.1 SP 1.4	100 100	
7.5.4	**Customer property**				
	Exercise care	PP	SP 2.3	30	
	Identify property	PP	SP 2.3	30	
	Report damage	PMC PP	SP 1.4 SP 2.3	30 30	
7.5.5	**Preservation of Product**				
	Maintain conformity during delivery	PI	SP 3.4	100	
	Preserve identification	PI	SP 3.4	100	
	Preserve product component parts	PI	SP 3.4	100	
7.6	**Control of monitoring and measuring devices**				
	Determine monitoring and devices needed	MA MA MA MA VAL VER	SP 1.1 SP 1.2 SP 1.3 SP 1.4 SP 1.3 SP 1.3	100 100 100 100 100 100	
	Establish monitoring processes	MA MA MA MA VAL VAL VER VER	GP 2.2 GP 2.9 SP 1.3 SP 1.4 GP 2.9 SP 1.3 GP 2.9 SP 1.3	60 60 60 60 60 60 60 60	
	Calibrate at specified intervals			0	
	Adjust as needed			0	
	Calibration status			0	
	Safeguard from adjustment			0	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Protect from damage			0	
	Assess prior measurement results			0	
	Take action on equipment			0	
	Keep calibration records			0	
	Confirm applicability of software	VAL	SP 1.2	30	
		VAL	SP 1.3	30	
		VER	SP 1.2	30	
		VER	SP 1.3	30	
	Confirm software before use			0	

Table 5: ISO 9001:2000 Section 8, Measurement, analysis and improvement

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
8	**Measurement, analysis and improvement**				
8.1	**General**				
	Product conformity	PPQA	SP 1.2	100	
		VER	GP 2.8	100	
		VER	SP 1.1	100	
		VER	SP 1.2	100	
		VER	SP 1.3	100	
		VER	SP 2.2	100	
		VER	SP 3.1	100	
	QMS conformity	OPF	SP 1.2	100	
	QMS improvement	OID	All SPs	100	
		OPF	SP 1.3	100	
		OPF	SP 2.1	100	
		OPF	SP 2.2	100	
	Determine methods and techniques	All PAs	GP 2.8	60	
		MA	SP 1.2	100	
		MA	SP 1.3	100	
		MA	SP 1.4	100	
		QPM	SP 2.1	100	
		QPM	SP 2.2	100	
8.2	**Monitoring and measurement**				
8.2.1	**Customer satisfaction**				
	Monitor customer perceptions	MA	SP 1.1	30	
		MA	SP 1.2	30	
		MA	SP 2.2	30	
		PMC	SP 1.5	30	
		VAL	GP 2.7	60	
		VAL	SP 2.1	60	
	Define methods for measuring satisfaction	MA	SP 1.2	60	
		MA	SP 1.3	60	
		MA	SP 1.4	60	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
8.2.2	**Internal audit**				
	Determine conformance	OPF PPQA	SP 1.2 All SPs	100 100	
	Determine effectiveness	OPF OPF OPF	SP 1.1 SP 1.2 SP 1.3	100 100 100	
	Audits consider process importance	OPF OPF PPQA	SP 1.1 SP 1.2 GP 2.2	100 100 100	
	Define audit criteria	OPF OPF PPQA	SP 1.1 SP 1.2 GP 2.2	100 100 100	
	Select objective auditors	PPQA	GP 2.4	100	Objectivity is addressed in PPQA introductory notes
	Don't audit own output			0	Objectivity is addressed in PPQA introductory notes
	Documented procedure defines audits	OPF OPF PPQA PPQA PPQA	GP 2.2 GP 2.4 GP 2.2 GP 2.4 SP 2.2	100 100 100 100 100	
	Actions taken promptly	OPF OPF PPQA PPQA PPQA	GP 2.1 GP 2.4 GP 2.1 GP 2.4 SP 2.1	100 100 100 100 100	
	Verify actions taken	OPF OPF OPF PPQA PPQA	SP 2.1 SP 2.2 SP 3.3 SP 2.1 SP 2.2	30 60 100 100 100	
8.2.3	**Monitoring and measurement of process**				
	Use suitable methods	All PAs MA MA MA OPP	GP 2.8 SP 1.2 SP 1.3 SP 1.4 SP 1.2	100 100 100 100 100	
	Demonstrate process capability	MA QPM QPM QPM QPM	SP 2.2 SP 2.1 SP 2.2 SP 2.3 SP 2.4	100 100 100 100 100	
	Take corrective actions	PMC PMC PMC QPM	SP 2.1 SP 2.2 SP 2.3 SP 2.3	100 100 100 100	
8.2.4	**Monitoring and**				

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	measurement of product				
	Monitor product characteristics	All PAs MA MA VAL VAL VER VER	GP 2.8 SP 2.1 SP 2.2 SP 2.1 SP 2.2 SP 3.1 SP 3.2	60 100 100 100 100 100 100	
	Measure at appropriate stages	VAL VER	All SPs All SPs	100 100	
	Maintain conformity record	PI SAM VAL VER	SP 3.3 SP 2.4 GP 2.6 GP 2.6	100 100 60 60	
	Maintain release records	PI	GP 2.6	60	
	Don't release until product realization plans are implemented	CM	SP 3.2	30	
8.3	**Control of nonconforming product**				
	Identify and control nonconforming product	CM PMC PMC PMC VAL VER	SP 1.3 SP 2.1 SP 2.2 SP 2.3 SP 2.2 SP 3.2	60 100 100 100 60 60	
	Define control of nonconforming product	VAL VAL VER VER	GP 2.2 GP 2.4 GP 2.2 GP 2.4	100 100 100 100	
	Take action	CM CM PPQA PMC PMC PMC VER	SP 2.1 SP 2.2 SP 2.1 SP 2.1 SP 2.2 SP 2.3 SP 3.2	100 100 100 100 100 100 100	
	Authorize use	PMC PMC PMC VER	SP 2.1 SP 2.2 SP 2.3 SP 3.2	100 100 100 100	
	Preclude use	PMC PMC PMC VER	SP 2.1 SP 2.2 SP 2.3 SP 3.2	100 100 100 100	
	Keep records of nonconformities	CM VER VER	SP 3.1 GP 2.6 SP 3.2	100 60 100	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Re-verify corrected nonconformance			0	Implied by the non-sequential and recursive nature of CMMI
	Take action after delivery			0	
8.4	**Analysis of data**				
	Collect data on QMS effectiveness	All PAs IPM MA OID OID OID OID OPF OPF OPP OPP OPP	GP 3.2 SP 1.6 All SPs SP 1.1 SP 1.2 SP 1.3 SP 1.4 SP 1.2 SP 1.3 SP 1.1 SP 1.2 SP 1.3	100 100 100 100 100 100 100 100 100 100 100 100	
	Include monitoring data	All PAs	GP 2.8	100	
	Analyze customer satisfaction	MA MA MA PMC VAL VAL	SP 1.1 SP 1.2 SP 2.2 SP 1.5 GP 2.7 SP 2.1	30 30 30 30 30 30	
	Analyze conformance	VER	SP 3.2	100	
	Analyze trends	CAR CAR OPP QPM	SP 1.1 SP 1.2 SP 1.4 SP 1.4	60 60 100 100	
	Analyze suppliers	SAM SAM SAM	GP 2.8 SP 2.2 SP 2.3	60 100 100	
8.5	**Improvement**				
8.5.1	**Continual improvement**				
	Improve QMS effectiveness	All PAs All PAs CAR MA MA OID OPF	GP 2.1 GP 2.10 All SPs SP 1.1 SP 2.2 All SPs All SPs	100 100 100 100 100 100 100	
8.5.2	**Corrective action**				
	Eliminate causes of nonconformities	CAR OPF OPF OPF	All SPs SP 2.1 SP 2.2 SP 3.1	100 100 100 100	
	Take appropriate actions			0	

Sect.	ISO 9001:2000 Requirement Keywords	CMMI PAs	CMMI Practices	Conf	Comment
	Review nonconformities	CAR	GP 2.2	60	
		CAR	SP 1.1	100	
		PMC	GP 2.2	60	
		PMC	SP 2.1	100	
		PPQA	SP 2.1	100	
		VER	GP 2.2	60	
		VER	SP 3.2	100	
	Determine causes	CAR	SP 1.2	100	
	Evaluate need for action	CAR	SP 1.2	100	
		PMC	SP 2.1	100	
	Determine action needed	CAR	GP 2.2	100	
		CAR	SP 1.1	100	
		CAR	SP 1.2	100	
		CAR	SP 2.1	100	
		PMC	SP 2.2	100	
		PPQA	SP 2.1	100	
	Record results	CAR	SP 2.3	100	
		PMC	GP 2.6	60	
		PPQA	SP 2.2	100	
	Review action	CAR	SP 2.2	100	
		PMC	SP 2.3	100	
		PPQA	SP 2.1	100	
8.5.3	**Preventive action**				
	Determine action to prevent nonconformity	CAR	SP 1.1	100	
		CAR	SP 1.2	100	
		OPF	SP 3.4	100	
	Take appropriate actions			0	
	Determine potential nonconformities	CAR	GP 2.2	60	
		CAR	SP 1.1	100	
		PMC	GP 2.2	60	
		PMC	SP 2.1	100	
		PPQA	SP 2.1	100	
		VER	GP 2.2	60	
		VER	SP 3.2	100	
	Evaluate need for action	CAR	SP 1.2	100	
		PMC	SP 2.1	100	
	Determine action needed	CAR	GP 2.2	100	
		CAR	SP 1.1	100	
		CAR	SP 1.2	100	
		CAR	SP 2.1	100	
		PMC	SP 2.2	100	
	Record results	CAR	SP 2.3	100	
		PMC	GP 2.6	60	
	Review action	CAR	SP 2.2	100	
		PMC	SP 2.3	100	