QMS Manual

Ian Dennis Miller

Today

Contents

1.	Scope	3
	1.1 Description of Organization	3
	1.2 Scope of Certification	3
	1.3 Third Party Certification	3
2.	References	3
3.	Terms & Definitions	4
	3.1 Description	4
	3.2 Implementation And Maintenance	4
4.	Quality Management System	4
	4.1 General Requirements	4
	4.2 Documentation Requirements	4
	4.2.1 General	4
	4.2.2 Quality Management System Manual	4
	4.2.3 Document and Data Control	4
	4.2.4 Control of Records	4
5.	Management Responsibility	5
	5.1 Management Commitment	5
	5.2 Customer Focus	5
	5.3 Policy Statement	5
	5.4 Planning	5
	5.4.1 Quality Objectives	5
	5.4.2 Quality Management System Planning	6
	5.5 Responsibility, Authority And Communication	6
	5.5.1 Responsibility And Authority	6
	5.5.2 Management Representative	6
	5.5.3 Communication & Participation	6
	5.6 Management Review	6
	5.6.1 Conoral	6

	5.6.2 Review Input	3
	5.6.3 Review Output	
	ololo 10010 ii Odipat III III II	•
6.	Resource Management 6	3
	6.1 Provision Of Resources	3
	6.2 Human Resources	
	6.2.1 General	3
	6.2.2 Competence, Awareness & Training	
	6.3 Infrastructure	
	6.4 Work Environment	
	0.4 WOR DIMINION	,
7.	Product Realization 6	3
		ŝ
	7.2 Customer Related Processes	
	7.2.1 Determination Of Requirements Related To Product 6	
	7.2.2 Review Of Requirements Related To Product	
	7.2.3 Customer Communication	
	7.3 Design & Development	
	7.3.2 Input	
	7.3.3 Output	
	7.3.4 Review	
	7.3.5 Verification	
	7.3.6 Validation	
	7.3.7 Control Of Design & Development Changes	
	7.4 Purchasing	
	7.4.1 Purchasing Process	
	7.4.2 Purchasing Information	
	7.4.3 Verification Of Purchased Product	3
	7.5 Production & Service Provision	3
	7.5.1 Control Of Production & Service Provision	3
	7.5.2 Validation Of Processes For Production & Service Provision 6	3
	7.5.3 Identification & Traceability	3
	7.5.4 Customer Property	3
	7.5.5 Preservation Of Product	3
	7.6 Control Of Monitoring & Measuring Equipment	3
8.	Measurement, Analysis & Improvement	
	8.1 General	
	8.2 Monitoring & Measurement	
	8.2.1 Customer Satisfaction	
	8.2.2 Internal Audit	
	0	7
	0	7
	8.3 Control Of Non-conformances	7
	8.4 Analysis Of Data	7

8.5 Improvement	7
8.5.1 Continual Improvement	
8.5.2 Corrective Action	7
8.5.3 Preventive Action	7
Appendices	10
A.1 Abbreviations & Acronyms	10
A.2 Sequence & Interaction Of QMS Processes	10
A.3 Relationships between ISO standards	10
A.4 List Of Key Management System Documents	10
Operational Procedures	10
Forms & Records	10
A.5 Organization Chart	10

This QMS manual describes a quality management system that conforms to the standards stated by ISO 9001:2008.

1. Scope

1.1 Description of Organization

This organization is an agglomeration of open sources software contributors. The project is open source in nature.

1.2 Scope of Certification

This document is set up for ISO 9001:2008 certification. However, these headings will roughly generalize to other ISO QMS certifications, such as ISO 13485.

1.3 Third Party Certification

The certifying institution must be chosen based upon jurisdiction.

2. References

- AAMI TIR45-2012
- ISO 9001-2008
- ISO 9004-2009
- ISO 13485-2003
- ISO 14971-2012
- ISO 20000-1-2005

- ISO 62304-2006
- ISO 90003-2004

3. Terms & Definitions

- 3.1 Description
- 3.2 Implementation And Maintenance
- 4. Quality Management System
- 4.1 General Requirements
- 4.2 Documentation Requirements
- 4.2.1 General
- 4.2.2 Quality Management System Manual
- 4.2.3 Document and Data Control

All project and planning materials will be stored in a directory structure containing the documentation in a variety of formats. The directory structure will be version controlled.

4.2.4 Control of Records

Project records are referred to under the Compliance heading of the Project Guide. These records contain a history documenting this project's quality assurance activities.

5. Management Responsibility

5.1 Management Commitment

5.2 Customer Focus

5.3 Policy Statement

This project seeks to deliver defect-free results.

5.4 Planning

5.4.1 Quality Objectives

The project processes should deliver new features while reducing defects over time.

- 5.4.2 Quality Management System Planning
- 5.5 Responsibility, Authority And Communication
- 5.5.1 Responsibility And Authority
- 5.5.2 Management Representative
- 5.5.3 Communication & Participation
- 5.6 Management Review
- 5.6.1 General
- 5.6.2 Review Input
- 5.6.3 Review Output
- 6. Resource Management
- 6.1 Provision Of Resources
- 6.2 Human Resources
- 6.2.1 General
- 6.2.2 Competence, Awareness & Training
- 6.3 Infrastructure
- 6.4 Work Environment
- 7. Product Realization
- 7.1 Product Realization Planning
- 7.2 Customer Related Processes
- 7.2.1 Determination Of Requirements Related To Product
- 7.2.2 Review Of Requirements Related To Product
- 7.2.3 Customer Communication
- 7.3 Design & Development 6
- 7.3.1 Planning
- 7.3.2 Input
- **7.3.3** Output

8.2.3 Process Monitoring & Measurement

8.2.4 Product Monitoring & Measurement

8.3 Control Of Non-conformances

When a defect is detected, the problem is recorded as a bug in the issue tracking system.

8.4 Analysis Of Data

8.5 Improvement

8.5.1 Continual Improvement

8.5.2 Corrective Action

A bug is handled by 1) creating a test that recreates the conditions of the bug (i.e. "regression test"); and 2) altering system code until the error condition has been corrected.

8.5.3 Preventive Action

The project uses a number of techniques to identify problems before they occur. This QMS is the primary action. More specific actions include:

- software version control
- test-driven development with unit tests
- continuous integration
- code reviews

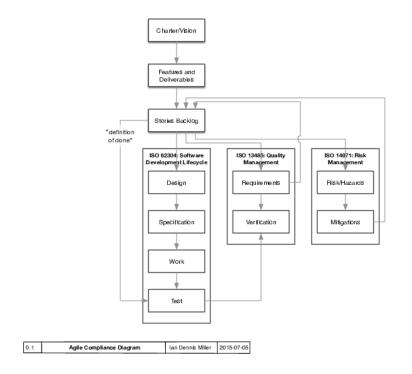
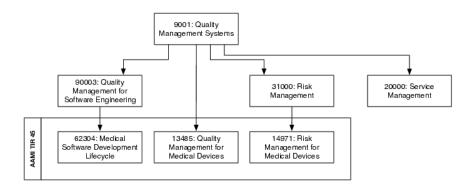


Figure 1: Agile QMS Process Diagram



0.1 Compliance Hierarchy Diagram Ian Dennis Miller 2015-07-05

Figure 2: Compliance Hierarchy Diagram

Appendices

- A.1 Abbreviations & Acronyms
- A.2 Sequence & Interaction Of QMS Processes
- A.3 Relationships between ISO standards
- A.4 List Of Key Management System Documents

Operational Procedures

Forms & Records

A.5 Organization Chart