

# ISO/IEC TS 30103:2015-09 (E)

## Software and Systems Engineering - Lifecycle Processes - Framework for Product Quality Achievement

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vi
<b>1</b>	<b>Scope .....</b>	<b>1</b>
1.1	Application .....	1
1.2	Audience .....	2
1.3	Limitations .....	2
<b>2</b>	<b>Motivation .....</b>	<b>2</b>
<b>3</b>	<b>Terms, definitions and abbreviated terms .....</b>	<b>3</b>
<b>4</b>	<b>Quality achievement concepts .....</b>	<b>4</b>
4.1	Overview of quality achievement .....	4
4.2	Guiding principles and approach .....	5
4.3	Localization of quality responsibility .....	6
4.3.1	Establishing system element requirements .....	6
4.3.2	Identification of process instances .....	8
4.4	Creation of process instance descriptions .....	8
4.4.1	Establishment of success criteria .....	8
4.4.2	Identification of detailed activities and tasks .....	9
4.4.3	Process instance descriptions .....	10
4.5	Consistency with institutional knowledge .....	11
4.6	Maintenance of content consistency .....	12
<b>5</b>	<b>Required background concepts .....</b>	<b>13</b>
5.1	System and Software Concepts .....	13
5.2	Life cycle concepts .....	13
5.3	Process concepts .....	14
5.4	Organizational concepts .....	14
5.5	Information Item Concepts .....	14
5.6	Notion of technical management .....	14
<b>6</b>	<b>Context of application .....</b>	<b>14</b>
6.1	Relationship to other standards .....	14
6.2	Organizational context .....	16
6.3	Stakeholder context .....	16
6.4	Stage context .....	16
6.5	Process context .....	16
6.6	Information item context .....	17
<b>7</b>	<b>Potential process augmentations .....</b>	<b>17</b>
7.1	Project planning process .....	17
7.2	Project assessment and control process .....	17
<b>8</b>	<b>Guidelines for process augmentations .....</b>	<b>17</b>
8.1	Project planning process .....	17
8.2	Project assessment and control process .....	18
<b>9</b>	<b>Potential information item augmentations .....</b>	<b>18</b>

9.1	Process Instance Descriptions .....	18
9.2	Consistency tracker .....	18
10	Guidelines for information item augmentations .....	19
10.1	Process instance descriptions .....	19
10.2	Consistency tracker .....	19
Annex A (informative) Example: Establishing System Element Requirements .....		20
Annex B (informative) Example: Creation of Process Instance Descriptions .....		23
Annex C (informative) Example: Consistency Tracker .....		27
Annex D (informative) Example: Process View for Specific Requirement .....		28
Annex E (informative) Theoretical Foundations .....		34
Annex F (informative) Example Set of Mutual Consistency Relationships .....		37
Bibliography .....		38