

ISO/IEC TR 29110-3-4:2015-10 (E)

Systems and software engineering - Lifecycle profiles for Very Small Entities (VSEs) - Part 3-4: Autonomy-based improvement method

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
1.1	Fields of application	1
1.2	Target audience	1
2	Normative references	1
3	Terms and definitions	2
4	Conventions and abbreviated terms	2
4.1	Naming, diagramming, and definition conventions	2
4.2	Abbreviated terms	2
5	Process improvement context for VSEs	2
5.1	Considerations of related standards for VSEs	2
5.2	Rationale of the process improvement for VSEs	2
6	Process improvement approach for VSEs	3
7	Characteristics for autonomy-based approach	4
7.1	General	4
7.2	Autonomy	4
7.3	Conciseness and easiness to understand	4
7.4	Low cost, quick cycle and controllable	4
7.5	Confidence of effectiveness and necessity	4
7.6	Communication with stakeholders and communities	4
8	Framework of process improvement	5
8.1	Initiation of improvement	5
8.2	Activities of improvement	5
8.2.1	Activity 1: Awareness of process problems	5
8.2.2	Activity 2: Analysis of problems and their relationships	5
8.2.3	Activity 3: Analysis of the root cause of problems	5
8.2.4	Activity 4: Identification of a process or processes relating to the root cause	5
8.2.5	Activity 5: Clarification of the fundamental purpose, outcomes, and practices of the process	5
8.2.6	Activity 6: Study on best practices on the process	6
8.2.7	Activity 7: Develop improvements to eliminate or mitigate problems	6
8.2.8	Activity 8: Evaluate the improvement plan for feasibility and impact	6
8.3	Continuous improvement cycle	6
8.4	Improved communication and agreement	6
8.5	Competency for improvement	7
8.6	Enhancement tools for improvement	7
8.7	Preparation or selection of a VSE profile	7
9	Improvement means growth and innovation	7
Annex A (informative)	Example: SPINA3CH method for the basic profile	8
Annex B (informative)	Adapting various profiles with the SPINA3CH method	20
Bibliography		22