

ISO/IEC 33202:2024-07 (E)

Software and systems engineering - Core agile practices

Contents		Page
Foreword		viii
Introduction		ix
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Conformance	4
4.1	Intended usage	4
4.2	Full conformance	4
5	Conceptual foundations	4
5.1	Practices and processes	4
5.2	Agile practices and concepts	5
5.3	Agile practices	5
5.4	Criteria for practices	6
5.5	Description of practices	6
5.6	Some agile concepts	6
5.6.1	Cadence	6
5.6.2	Gemba	6
5.6.3	Limiting work in progress	6
6	Core agile practices	7
6.1	Agreement practice	7
6.1.1	Purpose	7
6.1.2	Overview	7
6.1.3	Outcomes	7
6.2	Acquisition practice	7
6.2.1	Purpose	7
6.2.2	Overview	7
6.2.3	Outcomes	7
6.3	Supply practice	8
6.3.1	Purpose	8
6.3.2	Overview	8
6.3.3	Outcomes	8
6.4	Cross-functional team practice	8
6.4.1	Purpose	8
6.4.2	Overview	8
6.4.3	Outcomes	8
6.5	Feature team practice	8
6.5.1	Purpose	8
6.5.2	Overview	8
6.5.3	Outcomes	9
6.6	Component team practice	9
6.6.1	Purpose	9
6.6.2	Overview	9
6.6.3	Outcomes	9
6.7	Co-located team practice	9
6.7.1	Purpose	9

6.7.2	Overview	10
6.7.3	Outcomes	10
6.8	Distributed team practice	10
6.8.1	Purpose	10
6.8.2	Overview	10
6.8.3	Outcomes	10
6.9	Collective ownership practice	10
6.9.1	Purpose	10
6.9.2	Overview	10
6.9.3	Outcomes	11
6.10	Release planning practice	11
6.10.1	Purpose	11
6.10.2	Overview	11
6.10.3	Outcomes	11
6.11	Deployment planning practice	11
6.11.1	Purpose	11
6.11.2	Overview	11
6.11.3	Outcomes	12
6.12	Iteration planning practice	12
6.12.1	Purpose	12
6.12.2	Overview	12
6.12.3	Outcomes	12
6.13	Synchronized iteration practice	12
6.13.1	Purpose	12
6.13.2	Overview	12
6.13.3	Outcomes	12
6.14	Daily synchronization meeting practice	13
6.14.1	Purpose	13
6.14.2	Overview	13
6.14.3	Outcomes	13
6.15	Cross-team synchronization meeting practice	13
6.15.1	Purpose	13
6.15.2	Overview	13
6.15.3	Outcomes	13
6.16	Product owner synchronization meeting practice	14
6.16.1	Purpose	14
6.16.2	Overview	14
6.16.3	Outcomes	14
6.17	Value stream mapping practice	14
6.17.1	Purpose	14
6.17.2	Overview	14
6.17.3	Outcomes	14
6.18	Release review practice	15
6.18.1	Purpose	15
6.18.2	Overview	15
6.18.3	Outcomes	15
6.19	Iteration review practice	15
6.19.1	Purpose	15
6.19.2	Overview	15
6.19.3	Outcomes	15
6.20	Team retrospective practice	16
6.20.1	Purpose	16
6.20.2	Overview	16
6.20.3	Outcomes	16
6.21	Program retrospective review practice	16
6.21.1	Purpose	16
6.21.2	Overview	16
6.21.3	Outcomes	16
6.22	Program board governance practice	17
6.22.1	Purpose	17
6.22.2	Overview	17

6.22.3	Outcomes	17
6.23	Agile adoption improvement practice	17
6.23.1	Purpose	17
6.23.2	Overview	17
6.23.3	Outcomes	17
6.24	Visual management practice	18
6.24.1	Purpose	18
6.24.2	Overview	18
6.24.3	Outcomes	18
6.25	Distributed agile governance practice	18
6.25.1	Purpose	18
6.25.2	Overview	18
6.25.3	Outcomes	18
6.26	User stories practice	19
6.26.1	Purpose	19
6.26.2	Overview	19
6.26.3	Outcomes	19
6.27	Product backlog elicitation practice	19
6.27.1	Purpose	19
6.27.2	Overview	19
6.27.3	Outcomes	19
6.28	Product backlog refinement practice	19
6.28.1	Purpose	19
6.28.2	Overview	19
6.28.3	Outcomes	20
6.29	User story mapping practice	20
6.29.1	Purpose	20
6.29.2	Overview	20
6.29.3	Outcomes	20
6.30	Relative estimation practice	20
6.30.1	Purpose	20
6.30.2	Overview	21
6.30.3	Outcomes	21
6.31	Active stakeholder participation practice	21
6.31.1	Purpose	21
6.31.2	Overview	21
6.31.3	Outcomes	21
6.32	Initial architecture practice	21
6.32.1	Purpose	21
6.32.2	Overview	22
6.32.3	Outcomes	22
6.33	Intentional architecture practice	22
6.33.1	Purpose	22
6.33.2	Overview	22
6.33.3	Outcomes	22
6.34	Architecture description practice	23
6.34.1	Purpose	23
6.34.2	Overview	23
6.34.3	Outcomes	23
6.35	Incremental architecture practice	23
6.35.1	Purpose	23
6.35.2	Overview	23
6.35.3	Outcomes	24
6.36	Simple design practice	24
6.36.1	Purpose	24
6.36.2	Overview	24
6.36.3	Outcomes	24
6.37	Test-driven development practice	24
6.37.1	Purpose	24
6.37.2	Overview	24
6.37.3	Outcomes	25

6.38	Acceptance test-driven development practice	25
6.38.1	Purpose	25
6.38.2	Overview	25
6.38.3	Outcomes	25
6.39	Behaviour-driven development practice	26
6.39.1	Purpose	26
6.39.2	Overview	26
6.39.3	Outcomes	26
6.40	Feature-driven development practice	26
6.40.1	Purpose	26
6.40.2	Overview	26
6.40.3	Outcomes	26
6.41	Agile testing pyramid practice	27
6.41.1	Purpose	27
6.41.2	Overview	27
6.41.3	Outcomes	27
6.42	Continuous integration practice	27
6.42.1	Purpose	27
6.42.2	Overview	27
6.42.3	Outcomes	27
6.43	Continuous deployment practice	28
6.43.1	Purpose	28
6.43.2	Overview	28
6.43.3	Outcomes	28
6.44	Continuous delivery practice	28
6.44.1	Purpose	28
6.44.2	Overview	28
6.44.3	Outcomes	28
6.45	Continuous documentation practice	29
6.45.1	Purpose	29
6.45.2	Overview	29
6.45.3	Outcomes	29
6.46	Lean documentation practice	29
6.46.1	Purpose	29
6.46.2	Overview	29
6.46.3	Outcomes	29
6.47	Feature toggles practice	30
6.47.1	Purpose	30
6.47.2	Overview	30
6.47.3	Outcomes	30
6.48	Refactoring practice	30
6.48.1	Purpose	30
6.48.2	Overview	30
6.48.3	Outcomes	30
6.49	Test strategy practice	31
6.49.1	Purpose	31
6.49.2	Overview	31
6.49.3	Outcomes	31
6.50	User story testing practice	31
6.50.1	Purpose	31
6.50.2	Overview	31
6.50.3	Outcomes	31
6.51	Feature testing practice	32
6.51.1	Purpose	32
6.51.2	Overview	32
6.51.3	Outcomes	32
6.52	User acceptance testing practice	32
6.52.1	Purpose	32
6.52.2	Overview	32
6.52.3	Outcomes	32
6.53	Regression testing practice	33

6.53.1	Purpose	33
6.53.2	Overview	33
6.53.3	Outcomes	33
	Annex A (Informative) Summary of core agile practices	34
	Annex B (informative) Relationship with other standards	35
	Annex C (informative) Manifesto for agile software development	39
	Annex D (Informative) Application of agile in ISO/IEC/IEEE 12207	41
	Bibliography	42