ISO 9241-220:2019 (E)

Ergonomics of human-system interaction — Part 220: Processes for enabling, executing and assessing human-centred design within organizations

Contents

	Fo	preword				
	In	troduction				
1	So	Scope				
2	N	Normative references				
3	16	Terms and definitions				
4	Al	Abbreviated terms				
5	C	Conformance				
6	Pt	Purpose and benefits of this document				
	6.1	Purpose of human-centred design				
	6.2 6.3	Purpose of HCD process descriptions Benefits of using HCD process descriptions				
7	Н	HCD processes				
	7.1	HCD process model				
	7.2	HCD processes				
	7.3	Relationships between the HCD processes				
8	Us	sing the HCD process descriptions				
	8.1	Uses of the process descriptions				
	8.1.1	General				
	8.1.2	Implementing human-centred design as part of a system development or procurement				
		process and/or support life cycle				
	8.1.3	Assessing an enterprise's existing capability to carry out the human-centred processes				
	8.1.4	Improving the application of human-centred design as part of an existing system development process				
	8.1.5	Development of competence in human-centred design				
	8.2	Applying the process descriptions				
	8.2.1	General				
	8.2.2	Integration with systems and software engineering				
	8.2.3	Implementation of the processes				
	8.2.4	Iteration of processes				
9	Н	CD process descriptions				
	9.1	Format				
	9.2	Ensure enterprise focus on human-centred quality (HCP.1)				
	9.2.1 9.2.2	Purpose and outcomes of HCP.1 Incorporate human-centred quality in business strategy (HCP.1.1)				
	9.2.2	Institutionalize human-centred quality (HCP.1.2)				
	9.3	Enable human-centred design across projects and systems (HCP.2)				
	9.3.1	Purpose and outcomes of HCP.2				
	9.3.2	Integration of human-centred design (HCP.2.1)				
	9.3.3	Resources for human-centred design (HCP.2.2)				
	9.3.4	Authorization and control of human-centred quality (HCP.2.3)				
	9.4	Execute human-centred design within a project (HCP.3)				
	9.4.1	Purpose and outcomes of HCP.3				
	9.4.2	Plan and manage human-centred design for the project (HCP.3.1)				

	9.4.2.1	Overall Purpose and outcomes	
	9.4.2.2	======================================	
	9.4.2.3	J	
	9.4.2.4	(HCP.3.1.2) Define extent of human-centred design in the project (HCP.3.1.3)	
	9.4.2.5	Plan each HCD process activity (HCP.3.1.4)	
	9.4.2.6	Manage HCD process activities within the project (HCP.3.1.5)	
	9.4.3	Identify the context of use (HCP.3.2)	
	9.4.3.1	Overall purpose and outcomes	
	9.4.3.2		
	9.4.3.3	Identify other relevant aspects of the context of use and reported issues (HCP.3.2.2)	
	9.4.4	Establish the user requirements (HCP.3.3)	
	9.4.4.1	Overall purpose and outcomes	
	9.4.4.2	, , , , , , , , , , , , , , , , , , , ,	
	9.4.4.3	-1 7	
	9.4.4.4 9.4.5	Negotiate and prioritize the user requirements in the context of a project (HCP.3.3.3) Design solutions that meet user requirements (HCP.3.4)	
	9.4.5.1	Overall purpose and outcomes	
	9.4.5.2	• •	
	9.4.5.3	Produce and refine user interface design solutions (HCP.3.4.2)	
	9.4.6	User-centred evaluation (HCP.3.5)	
	9.4.6.1	Overall purpose and outcomes	
	9.4.6.2	· · · · · · · · · · · · · · · · · · ·	
	9.4.6.3	, , , , , , , , , , , , , , , , , , , ,	
	9.4.6.4	Carry out each evaluation (HCP.3.5.3)	
	9.5 9.5.1	Introduction, operation and end of life of a system (HCP.4) Overall purposes and outcomes	
	9.5.1	Introducing the system (HCP.4.1)	
	9.5.3	Human-centred quality in operation (HCP.4.2)	
	9.5.4	Human-centred quality during upgrades (HCP.4.3)	
	9.5.5	Human-centred quality at the end of life of a system (HCP.4.4)	
Annex	A (in	formative) Work products for HCD processes	
	•		
	A.1 A.1.1	Work products and their use General	
	A.1.1 A.1.2	Use of work products	
	A.1.3	Sources of the work products in this document	
	A.2	Description of work products	
	A.2.1	Generic work products	
	A.2.2	Specific work products related to human-centred quality described in ISO/IEC TR 25060	
	A.3	Process work product list	
	A.3.1	Format of the list	
	A.3.2	Use of the list	
	A.3.3	Process work product list	
Annex	к В (n	ormative) Tailoring of processes and work products	
	B.1	General	
	B.2	Tailoring process	
	B.2.1	Purpose	
	B.2.2	Outcomes	
	B.2.3	Activities	
	B.3	Work product management	
Annex	C (in	formative) Relationship to other human-centred design standards	
	C.1	General	
	C.2	Relationship to ISO 27500	
	C.3	Demonstration of conformance to other standards for human-centred design	
	C.4	Cross-reference between ISO 9241-210 and HCPs in this document	
Annex D (informative) Uses of the document			
	D.1	Uses of the process descriptions	
	D.1.1	General	
	D.1.2	Implementing human-centred design	
	D.1.3	Assessing an enterprise's existing capability to carry out the human-centred processes	

	D.1.4	Improving the application of human-centred design as part of an existing system development process
	D.1.5	Development of competence in human-centred design
	D.1.3 D.2	Organizational context for implementing human-centred design
	D.2	Organizational context for implementing number-centred design
Annex	ε E (inforr	mative) Human-centred quality
	E.1	General
	E.2	Usability
	E.3	Accessibility
	E.4	User experience
	E.5	Harm from use
	E.5.1	General
	E.5.2	Harm to the user
	E.5.3	Harm to the organization using the interactive system
	E.5.4	Harm to the organization supplying or acquiring the interactive system
	E.5.5	Harm to other stakeholders
	E.6	Specific applications of human-centred quality
	E.7	Relationship to quality in use in ISO/IEC 25010:2011
Annex	c F (inforr	mative) Risk management and human-centred design
	F.1	General
	F.2	Avoiding harm through human-centred design
	F.2.1	General
	F.2.2	Design strategies for mitigation of risk
	F.2.3	Management of organizational threats

Page count: 90