

Definitions of health care and social welfare informatics competencies. From: Värri, A. Tiainen, M. Rajalahti, E. Kinnunen, UM. Saarni, L. Ahonen, O. (2020). The Definition of Informatics Competencies in Finnish Healthcare and Social Welfare Education. Digital Personalized Health and Medicine, Studies in Health Technology and Informatics, 1143-1147. Available at: <http://dx.doi.org/10.3233/SHTI200341>

Area of competency	Main content
Basic information and communications technology (ICT) competencies	Skills to use information and communication technologies; General understanding of information and communication technologies; Information literacy skill; Information management
Online interactive competencies	Factors affecting online dialogue; Skills to plan successful online interaction situations; Skills to use various online interaction applications; Online etiquette
Person centered digital service competencies	Social and health care service structures; The utilization of eHealth and eWelfare services; Various eHealth and eWelfare service environments and tools; Citizen empowerment and person-centered health and social care in the welfare ecosystem; Digital service pathways; E-services and virtual reception; Accessibility of eHealth and eWelfare services; Cost awareness
Online guiding competencies	Introduction to Person-centred guiding skills in a digital environment; Assessing customers' IT skills; Designing a person-centred guiding in digital environment; Implementation a person-centred guiding in digital environment; Evaluation a person-centred guiding in digital environment
Health monitoring competencies	Basics of artificial intelligence; Introduction to sensory technology; Wearable technology; Tests and indicators related to monitoring; Interpretation and utilization of monitoring data; Robotics -In social and healthcare
Health and social care informatics competencies	Interoperability of digital systems; Information flow in information systems; Information management process; Document management process and practices; Digital recording; Roles and responsibilities in the use of information; Information management legislation; Information management guidance and cooperation; Data protection and security; Cyber security
Interprofessional work in development communities competencies	Key principles of human-centered design in development cooperation; Different concepts and stages, models and methods of multifunctional development cooperation; Different actors and roles of actions, as well as different forms of expertise in a multifunctional development community; Personal expertise and substance expertise in multifunctional cooperation; Utilization of digital tools, methods and platforms in multifunctional collaboration; Development of multifunctional activities; Equal and respectful activities and a respectful encounter in the field of multifunctional collaboration
Ethical competencies	Main principles of ethics; Ethics in digital health and social welfare services; Ethical leadership and development in digitalizing health and social welfare services; The future work in the changing environment of health and social welfare; Ethics in research and development; Ethics of teaching and learning
Service design competencies	Carrying out a preliminary study; Gaining customer understanding; Customer experience; Generating ideas; Creativity; Conceptualization; Prototyping; Service concept; Customer orientation; Service path; Maintenance session; Touch point; Service innovation; Design thinking
Knowledge-based management competencies	Concepts of knowledge management; Knowledge based decision making; Customer as a user of information; Evidence-based information in health and social welfare services; Secondary use of data
Research, development and innovation competencies	Self-assessment and continuous development of personal digital competencies in health and social welfare; Assessment and development of the work community's digital competencies in health and social welfare; Understanding the importance of development activities to the society
Societal competencies	Promoting digital inclusion; Inequalities associated to technology; The social impact of technology