

Skill Set

Essential Learning Blocks

1. CONDUCT A FUNCTIONAL AND TECHNICAL ANALYSIS AND THE DEPLOYMENT OF TECHNOLOGICAL SOLUTIONS FOR HEALTHCARE PROFESSIONALS	• Proactively engage with healthcare professionals • Consider specific practices and workflows of healthcare professionals • Take into account norms, standards and the regulatory environment • Produce clear and structured materials to support requirements expression and system usage
2. WRITE FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR HEALTH INFORMATION SYSTEMS OR DIGITAL MEDICAL DEVICES	• Meet functional requirements of healthcare professionals • Respect technical constraints in choosing or developing technological solutions • Comply with regulatory standards (certification, interoperability, security, CSR) • Implement a formal specification formalism • Structure documents and presentations to support effective communication with engineering and implementation teams
3. DESIGN AND DEVELOP HEALTH INFORMATION SYSTEMS	• Ensure that technical solutions are complete and meet identified needs • Optimize usability, performance, and stability of technical solutions • Justify the methodological choices implemented • Produce appropriate documentation for the solution delivered • Demonstrate execution of validation tests
4. DESIGN AND DEVELOP DIGITAL MEDICAL DEVICES	• Use biomedical data processing methods that address identified needs • Optimize solution performance based on specifications • Follow quality-assurance processes and applicable regulations • Integrate validation processes throughout development • Produce appropriate documentation for the solution delivered