

## **HI: Health Informatics**

### ***HI1: Basic analysis and modelling***

HI1a: Specification and gathering of requirements

HI1b: Evaluation of requirements against professional guidelines, legal obligations and best practice

HI1c: Scope analysis

HI1d: Requirement for and development of Use Cases

HI1e: Knowledge and application of UML modelling

HI1f: Representation of processes

HI1g: Representation of information

HI1h: Representation of data

HI1i: Understanding of the principles and use of xml

### ***HI2: Project and Service management***

HI2a: Knowledge and application of PRINCE2 methodology

HI2b: Understanding and application of Project Management processes

HI2c: Understanding and application of Project Management components

HI2d: Understanding and application of Project Management techniques

HI12e: Knowledge and application of best practice process design and change management issues

HI2f: Knowledge and application of ITIL (IT Infrastructure Library) methodology

HI2g: Understanding and application of Service Delivery

HI2h: Understanding and application of Service Support

HI2i: Understanding and application of Business Perspective

HI2j: Understanding and application of Infrastructure Management

HI2k: Understanding and application of Applications Management

### ***HI3: Systems design***

HI3a: Understanding technologies

HI3b: Understanding applications

HI3c: Awareness of relevant standards for clinical system design

HI3d: Knowledge and application of the principles of Clinical Risk Analysis

HI3e: Knowledge and application of the principles of Clinical Hazard Assessment

HI3f: Knowledge and application of the principles of Clinical Assurance Reporting

HI3g: Use of standard design methods and notation (e.g. UML)

HI3h: Metrics and benefits analysis of clinical systems

HI3i: Knowledge of requirements for and design of Interfaces

HI3j: Identify the needs of clinicians, patients and the public for communication, information and knowledge systems

HI3k: Develop a specification for communication, information and knowledge systems to meet the needs of clinicians, patients and the public

HI3l: Facilitate, and clinically validate, the development of communication, information and knowledge systems to meet the needs of an agreed specification

HI3m: Facilitate, and clinically validate, the implementation, evaluation and improvement of communication, information and knowledge systems to meet the needs of clinicians, patients and the public

#### ***HI4: Quality Control***

HI4a: Quality Control methodology

HI4b: Scenario analysis

HI4c: Facilitate the clinical audit process

#### ***HI5: Medicines data and Terminology***

HI5a: Understanding terminologies

HI5b: Standard databases

HI5c: Implementation of medicines data and/or terminology

HI5d: Designing and maintaining local and national medicines data and terminology solutions

#### ***HI6: Clinical Coding and Classification***

HI6a: Understanding clinical coding and classification systems

HI6b: Designing clinical coding and classifications

HI6c: Using clinical coding and classifications

HI6d: Relation of clinical coding and classification systems to Pharmacy

***HI7: Clinical decision support methodology***

HI7a: Knowledge and application of the principles of clinical decision support in electronic prescribing systems

HI7b: Awareness and understanding of local clinical decision support systems

HI7c: Awareness and understanding of national clinical decision support systems

***HI8: Documentation and Information Retrieval***

HI8a: Use of appropriate formats

HI8b: Technical and Medical authoring

HI8c: Search for clinical information and evidence according to an accepted methodology

HI8d: Principles of database searching

HI8e: Development of evidence-based clinical guidelines

HI8f: Critically appraise clinical information and evidence

***HI9: Implementation***

HI9a: Implementing and supporting national solutions

HI9b: Implementing and supporting local solutions

HI9c: Implementing medicines data and terminologies

***HI10: Basic principles of IT***

HI10a: Basic concepts of information technology

HI10b: Using a computer and managing files

HI10c: Knowledge and application of the principles of word processing

HI10d: Knowledge and application of the principles of spreadsheets

HI10e: Knowledge and application of the principles of databases

HI10f: Knowledge and application of the principles of presentations

HI10g: Knowledge and application of the principles of information and communication

***HI11: Clinical and Patient safety***

HI11a: Awareness of hazard identification tools

HI11b: Understanding of and ability to conduct risk analysis

HI11c: Understanding of and ability to conduct hazard analysis

HI11d: Awareness and understanding of the relation of health informatics to patient safety

HI11e: Awareness and understanding of the relation of systems design to patient safety