

SFHHI5

Develop models for processing data and information in a health context



Overview

This standard is about developing models for processing data and information. These models could be data models, database models or mathematical models. You will need to be able to identify the requirements for data and information. These requirements will be around the organisational need to process data and information. You will also need to select existing and/or new sources of data and information. Finally, you will need to develop and test the model so that it meets the needs of the audience, as well as legal and organisational requirements.

Users of this standard will need to ensure that practice reflects up to date information and policies.

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Performance criteria

You must be able to:

- P1 consult with colleagues and the target audience to identify the requirements for processing data and information
- P2 identify the structure, definitions and characteristics of the data and information to establish how this will influence the model
- P3 identify if there are existing approaches that can be revised to develop the model for processing data and information
- P4 establish the resources required to set up the new model
- P5 check conformity with information governance requirements and adhere to data
- P6 check all existing sources of data and information that meet the identified requirements of the new model
- P7 identify new sources of data and information that meet the identified requirements of the new model
- P8 evaluate data and information from existing and new sources for associated resource implications
- P9 document sources of data and information used in the new model
- P10 identify and report on the reasons for, and implication of, missing relevant data and information in the new model
- P11 determine the scope of the proposed model to meet the agreed structure, definitions and characteristics of the data and information
- P12 determine the format of the model
- P13 develop the model so that it meets the needs of the audience, as well as legal and organisational requirements
- P14 develop, test and evaluate the model using a sample of relevant data and
- P15 make any necessary adjustments to the model based on the results of the testing
- P16 explain the model clearly and accurately to colleagues and others who will use the model
- P17 document the model, its nature, scope and format and any inputs to and outputs from it

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Knowledge and understanding

You need to know and understand:

- K1 the relevant legislation, policies, procedures, codes of practice and guidelines in relation to information management
- K2 the importance and reasons for adhering to information governance
- K3 the wider sensitivities of data and information relevant to your role
- K4 the standards regarding data and information (e.g. sources, validity, reliability, completeness, terminology, acronyms, purpose and conventions)
- K5 the health and business context for data and information processing (e.g. clinical impact, patient safety issues, increased productivity)
- K6 the professional codes of ethics in your area of practice
- K7 the audience(s) requirements for data and information (e.g. management, practitioners and the public)
- K8 the structure, definitions and characteristics of data and information
- K9 the purpose for which the data and information is intended
- K10 the different types of data and information sources (including sources from which data and information is difficult to capture)
- K11 the importance of checking the sources of data and information
- K12 the resources required to develop new models
- K13 how to develop, test and evaluate new models for processing data and information
- K14 the need to establish standards where the data and information requirements are new
- K15 how to document the new model, including its nature, scope and format
- K16 the risks to processing data via data warehousing tools

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Additional Information

External Links

This standard links with the following dimension within the NHS Knowledge and Skills Framework (October 2004):

Dimension: IK1 Information processing

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