NHS Data Model and Dictionary   Learning Brief

Introduction to NHS Data Model and Dictionary:
- Purpose, scope, and importance
- Data integration, interoperability, and standardisation within and beyond the NHS
- Case study: data integration across clinical settings

Data Model Structure and Components:
- Data model hierarchy: domains, entities, attributes, and relationships
- Sections of the data model: clinical, administrative, and reference data.
- Terminology: definitions, acronyms, and codes

Data Dictionary and Metadata:
- Data dictionary role: maintain definitions and detailed descriptions of data elements
- Navigating the data dictionary
- Metadata for data elements: data source, data quality, and data governance information
- Assignment: locating metadata

Clinical Classifications and Coding Systems:
- Coding systems used in the NHS: ICD, Read Codes (CTV3 and SNOMED CT), and NCCS.
- Use of codes to capture and organise clinical data
- Assignment: coding clinical concepts and diagnoses

Data Flows and Workflows:
- Data flow within and between healthcare systems
- Interactions between data entities
- Patient care workflows and data flows, administration, and reporting
- Data collection points, transformations, and data exchange mechanisms
- Assignment: modelling data flows and workflows

Data Sets:
- Administrative
- Commissioning data sets (CDS)
- Central return
- Clinical and supporting data sets
- Case studies: uding data sets for analysis and research

Data Quality and Governance:
- Data Custodian role and FAIR access
- Data quality assessment
- CIA – confidentiality, integrity and availability
- ONS – 5 safes
- Data access request management
- Regulatory bodies and professional standards
- Case study: best practice for data quality and standards in health data research

Learners will gain practical knowledge and skills to enhance and enable their ability to work with the NHS data model and dictionary

Measurement and assessment of the achievement of individuals and cohorts of learners can be provided