AHIMA®

Health Data Literacy Microcredential

Content Outline

A. Basics of Health Data (25% to 30% of questions)

- 1. Understand types and sources of health data (internal vs. external).
 - Structured vs Unstructured vs Semi-structured
 - Administrative, claims data, financial, patient-generated
 - Clinical (EHR), patient disease registries
 - Health surveys, clinical trial data, public health data sources (e.g., CDC, WHO)
- 2. Describe data use (e.g., patient care, billing), functions, purposes, and how data can be utilized for decision-making
- 3. Demonstrate an understanding of coding systems and the structure of the codes (ICD-10, CPT, HCPCS, SNOMED CT, etc.)
- 4. Describe the data literacy needs of different levels within organizations:
 - Individual Level
 - Departmental Level
 - Organizational Level
 - Community Level
- 5. Describe the Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM), and basic data modeling
- 6. Recognize the categories of health care data that are available in an EHR
- 7. Differentiate between the types of patient encounters inpatient vs. outpatient and the associated data

B. Health Data Integrity (20% to 25% of questions)

- 1. Describe data quality characteristics
 - Accuracy
 - Accessibility
 - Comprehensiveness
 - Consistency
 - Currency
 - Definition
 - Granularity
 - Precision
 - Relevancy
 - Timeliness
- 2. Evaluate the quality of data sources
- 3. Ensure quality and integrity of data
- 4. Understand the secondary use of data, such as research
- 5. Explain data governance frameworks and policies
- 6. Ensure data use adheres to privacy, confidentiality, and compliance requirements

C. Health Data Analysis Fundamentals and Practice (30% to 35% of questions)

- 1. Use clinical terminologies appropriately in healthcare settings
- 2. Explain elements and identify examples of an appropriate query
- 3. Create meaningful data reports
- 4. Interpret data visualizations, such as histograms, scatter plots, and dashboards
- 5. Explain how to use data to drive improvement
- 6. Communicate results of data analysis to various stakeholders
- 7. Describe ethical considerations in handling sensitive healthcare data
- 8. Calculate statistics and measures commonly used in healthcare data analysis (example length of stay)
- 9. Apply data analysis and data cleaning techniques

D. Health Data Management (15% to 20% of questions)

- 1. Describe the steps in the data lifecycle
- 2. Understand database design and functionality
- 3. Describe how health care data is generated and stored
- 4. Describe EHR database schemas
- 5. Understand emerging technologies and their impact on health data use and analytics, such as AI and machine learning, big data and its applications in healthcare