

Certified Health Data Analyst (CHDA) Exam Content Outline

(Effective Date: 02/01/2024)

Domain 1 – Foundational Knowledge of Analytics in Healthcare (14-16%)

Tasks:

- 1. Understand the healthcare delivery system
- 2. Differentiate commonly used healthcare datasets and quality measures
- 3. Apply knowledge of healthcare classification systems, terminologies, and ontologies (e.g., ICD/PCS, CPT, SNOMED, LOINC, RxNorm, etc.)
- 4. Describe the revenue cycle management process
- 5. Differentiate accreditation agencies and regulatory reporting requirements
- 6. Demonstrate basic understanding of epidemiology and health equity
- 7. Describe the relationships between electronic health records (EHR), informatics and healthcare data
- 8. Understand the levels of analysis (descriptive, predictive, prescriptive, and diagnostic)
- 9. Differentiate applications of artificial intelligence in healthcare

Domain 2 - Business Needs Assessment (11-15%)

Tasks:

- 1. Apply project management principles as related to data analytics
- 2. Understand the stakeholders and determine their needs
- 3. Identify the goal of the data request
- 4. Identify and evaluate relevant metrics for business needs
- 5. Create an analysis plan (i.e., data parameters, data sources, metrics definition, documentation of specifications, etc.)

Domain 3 - Data Acquisition (14-18%)

Tasks:

- 1. Identify sources and lineage of target data elements
- 2. Differentiate between data collection methods
- 3. Extract data
- 4. Evaluate data quality
- 5. Cleanse acquired data
- 6. Transform the data (e.g., data aggregation, data mapping, etc.)
- 7. Validate transformed data

Domain 4 – Data Analysis (22-25%)

Tasks:

- 1. Query data
- 2. Determine and explain analytical approach
- 3. Apply analytical methodologies
- 4. Identify trends, patterns, and anomalies in data
- 5. Understand how benchmarking and risk adjustment are performed on data

Domain 5 – Data Interpretation and Reporting (18-22%)

Tasks:

- 1. Interpret results and identify key findings
- 2. Explain assumptions and limitations
- 3. Create optimal data visualizations for stakeholders (e.g., charts, graphs, dashboards, business intelligence tools, etc.)
- 4. Communicate findings to stakeholders

Domain 6 – Data Governance (8-10%)

Tasks:

- 1. Understand the development, implementation, and evaluation cycle of policies for access, ownership, integrity, or usage of data
- 2. Differentiate between database designs
- 3. Identify key health data laws and regulations (e.g., HIPAA) in the context of data access and analysis
- 4. Understand the necessity of audit logs or controls of analyses and data submission