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