

D.A.T.A.

Data Analytics Technician Advancement

	2015 Compression Planning Skills/Abilities									
	6.01	5.03	5.02	5.01	4.05	4.04	4.03	4.02	4.01	3.02
6.01 Progression of building a solution										
5.03 Learn an ETL tool for data provisioning										
5.02 Conduct ETL (extract, load, and transform)										
5.01 Conduct traditional ETL (extract, transform, and load)										
4.05 Perform statistical calculations										
4.04 Perform data blending										
4.03 Understanding of fundamental business practices										
4.02 Exposure to reporting tools										
4.01 Extract data										
3.02 Basic presentation and visualization of data										
3.01 Basic reporting										
2.04 Focus on structured data systems (future)										
2.03 Focus on structured data systems (present)										
2.02 Knowledge of transactional and dimensional databases										
2.01 Conduct relational database modeling										
1.02 Be able to complete a structured query language test										
1.01 Write SQL code										
1A. Translates business problems into analytic needs.										
1B. Interviews stakeholders.										
1C. Refines stakeholder needs.										
1D. Identifies appropriate data.										
1E. Identifies whether data exists or not.										
1F. Performs gap analysis of the data.										
1G. Determines resource needs (e.g., SMEs, tools, timelines).										
1H. Determines feasibility of analysis to be done.										
1I. Creates statement of work.										
2A. Determines data source(s).										
2B. Determines target structure.										
2C. Collects data.										
2D. Exercises quality control (e.g., randomizes selection).										
2E. Extracts data (e.g., writes SQL, API code).										
2F. Cleans data (e.g., identifies outliers/errors).										
2G. Tests data.										
2H. Creates data dictionary.										
2I. Complies with business, ethical and legal standards.										
3A. Merges data.										
3B. Splits data.										
3C. Derives new variables.										
3D. Creates new data.										
3E. Augments data.										
3F. Applies meta- data.										
3G. Purges data.										
3H. Changes data structure.										
3I. Changes data types.										
3J. Normalizes data.										
3K. Interpolates data.										
3L. Finalizes data dictionary.										
3M. Stores data for analytics.										
4A. Determines what analysis to run.										
4B. Applies the research method and tools.										
4C. Identifies dependent and independent variables.										
4D. Defines appropriate algorithms.										
4E. Performs data mining.										
4F. Separates any anomalies.										
4G. Interprets the results.										
4H. Runs additional tests as needed.										
4I. Performs reasonableness tests of results.										
4J. Compares results to previous findings.										
4K. Confirms results.										
4L. Conducts causality testing.										
4M. Creates data visualizations (e.g., dashboards, reports, charts, graphs, videos, animation).										
5A. Selects documentation media.										
5B. Describes problem, method and analysis.										
5C. Articulates conclusions.										
5D. Compiles reports.										
5E. Presents information to stakeholders.										
5F. Integrates feedback from stakeholders.										
5G. Defends analysis as needed.										
5H. Reworks analysis as needed.										
5I. Prepares final report.										
5J. Archives work products.										
5K. Communicates future processes, improvements and opportunities.										
6A. Maintains professional qualifications.										
6B. Stays current on emerging technologies, methods and tools.										
6C. Seeks out mentors.										
6D. Shares best practices.										
6E. Contributes new knowledge to the field.										
6F. Attends relevant conferences and seminars.										
6G. Mentors others.										
6H. Participates in professional organizations.										
6I. Suggests future projects.										

EOC Data Practitioner Tasks



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