	1. Data Management and Governance					
	KSA Description	**Knowledge, Skill, or Ability?**	**Bloom's Taxonomy Level?**	**Cross-cutting KSAs**	**Course Number/Name**	**Learning Outcome**
a	Awareness of definitions of key terms of data analysis such as:data engineering, data repository, data governance, machine learning, deep learning, accuracy, precision, recall, data privacy, model drift, auto-tagging, etc.	Knowledge	1			
b	Explain the important issues around data governance, including change management purpose and structure.	Knowledge	2	Generalist 5e, Machine Learning 5d		
c	Understand data profiling; explain data summarization, sanity checks, and validation.	Knowledge	2			
d	Differentiate common data typologies, including structured vs. unstructured, numeric vs. text, root vs. derived.	Knowledge	3	Generalist 1b		
e	Explain the difference between a logical and physical data diagram.	Knowledge	2			
f	Recognize and explain the importance of Key Performance Indicators and Metrics and how to describe and communicate data for KPIs.	Knowledge	2			
g	Recognize the basic data governance issues across the data analytics lifecyle phases	Knowledge	3			