# **KNOWLEDGE GRAPH UNIVERSITY**

## **FOUNDATIONS FOR ARTIFICIAL INTELLIGENCE (AI)**

If you're looking to build out competency with semantics and knowledge graphs in your team, EK's Knowledge Graph University is a great place to start. This five-module intensive training is taught by our expert instructors who will coach your team in the various aspects of knowledge graphs, from the basic concepts and business applications through to the technical skills needed to create your own knowledge graph from scratch. We tailor the course to your audience and skillset needs, highlighting the information you need to successfully achieve your business goals. The EKGU five modules of training are offered at three levels (basic, intermediate, and advanced) customized to the following individuals:



#### **Information Analysts**

Foundational principles around taxonomies, ontologies, and semantics, and the common business applications of ontology based on real case studies. Provides approaches to support simple to complex semantic solutions by analyzing content and data sources to discover relationships, making connections across large datasets.



#### **Data/Knowledge Managers**

Outcomes based and user-centric approach to ontology design and graph implementation, based on real world applications. Specific approaches to align technical requirements to organizational ROI.



#### Taxonomists/Ontologists

Gain hands-on experience to design and implement complex ontology solutions that involve the integration of taxonomies, ontologies, and knowledge graphs. Hands-on modeling and practice labs offer practical experience with documenting ontology designs in a subset of industry leading semantic tools for ontology management.

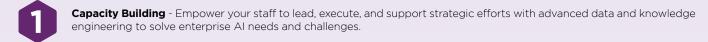


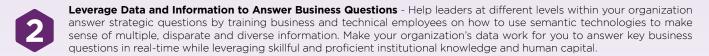
#### **Knowledge Graph Engineers/Implementers**

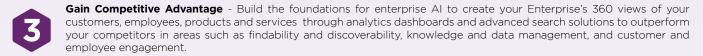
Hands-on experience to lead and support the technical implementation of semantic solutions leveraging best-of-class, field-proven taxonomy/ontology management tools, and graph databases. Master key concepts around semantic inference, structured and unstructured data, auto-tagging, SPARQL, advanced validation with SHACL, implementation of Knowledge Graphs and Artificial Intelligence (AI) solutions.

### **BUSINESS OUTCOMES**

With this training, your organization should expect the following business outcomes:









WHAT ATTENDEES WILL LEARN	BEGINNER	INTERMEDIATE	ADVANCED + TECHNICAL
MODULE 1: ONTOLOGY BASICS			
Ontology Definition and Application	<b>~</b>	~	<b>~</b>
Business Value of Ontologies	<b>~</b>	<b>~</b>	<b>~</b>
Introduction to Semantics, Taxonomy, and Ontology	<b>~</b>	<b>~</b>	<b>~</b>
MODULE 2: ONTOLOGY DESIGN			
Approach for Managing Ontology Projects		~	<b>~</b>
RFD Deep Dive		<b>~</b>	<b>~</b>
Hands-on Ontology Design		~	<b>~</b>
Knowledge Graphs Introduction		~	<b>~</b>
MODULE 3: ADVANCED ONTOLOGY D	ESIGN AND DATA	MODELING	
Ontology Foundations Review		<b>~</b>	<b>~</b>
Reasoning		<b>~</b>	<b>~</b>
Linked Open Data		<b>~</b>	<b>~</b>
Tricky Design Considerations		<b>~</b>	<b>~</b>
Advanced Hands-on Design		<b>~</b>	<b>~</b>
MODULE 4: ONTOLOGY TO GRAPH IM	PLEMENTATION		
Inference			<b>~</b>
Structured Data			<b>~</b>
Unstructured Data and Auto-tagging			<b>~</b>
RDF Serializations			<b>~</b>
Introduction to ETL			<b>~</b>
MODULE 5: ADVANCED KNOWLEDGE	GRAPH IMPLEM	ENTATION	
Introduction to SPARQL			<b>~</b>
Advanced Validation with SHACL			<b>~</b>
Machine Learning, Knowledge Graphs, and Artificial Intelligence (AI)			<b>~</b>
EST. HOURS	3	10	16

