

D2I CAMPUS ENGAGEMENT LEVELS

Training Category Key:

General = Not specific to UT Austin; Training available from other sources

UT-Specific = Training specific to the UT Austin campus

Recommended = Advised and suggested as good practice

Essential = Important and possibly necessary

✦ = Currently in development.

LEVEL 1: INFORMATION CONSUMER

• No direct technical understanding of or access to the UT Data Hub needed at this level.

• All faculty and staff are considered potential information consumers.

I Need To:	Possible Staff Roles:	Skills You Might Need:	Related Technology:	Training:
<ul style="list-style-type: none"> Locate, access, interact, and consume local CSU and/or campus reports, visualizations, and dashboards 	<ul style="list-style-type: none"> Information Analyst 	<ul style="list-style-type: none"> Basic data/information literacy How to use information to support decision making How to interact with reports, visualizations, and dashboards Understand the institutional context of data and best practices regarding their use, confidentiality, storage, and security Understanding of Business Intelligence [BI] definition, concepts, and tools 	<ul style="list-style-type: none"> Insights.utexas.edu Tableau Alation 	<p>General Recommended:</p> <ul style="list-style-type: none"> Data literacy training <p>UT-Specific Essential:</p> <ul style="list-style-type: none"> Basic training on how to interact with a D2I Tableau dashboard ✦ Basic training in Alation [data catalog, field definitions, lineages, etc.] ✦

LEVEL 2: BUSINESS INTELLIGENCE DEVELOPMENT

I Need To:	Possible Staff Roles:	Skills You Might Need:	Related Technology:	Training:
<ul style="list-style-type: none"> Access campus data Build and develop reports, visualizations, and dashboards using local CSU data and/or published campus data sources available in the UT Data Hub 	<ul style="list-style-type: none"> Data Analyst BI Developer QA Analyst 	<ul style="list-style-type: none"> Advanced data analysis Familiarity with UT Data Hub structure, processes, and standards BI tool training in the selected tool Knowledge of relational database concepts including security Working experience of data validation techniques 	<ul style="list-style-type: none"> SQL Tableau and/or other BI tools Alation 	<p>General Essential:</p> <ul style="list-style-type: none"> Basic SQL Advanced user training in BI tools <p>UT-Specific Essential:</p> <ul style="list-style-type: none"> Orientation to the UT Data Hub ✦ Basic training in Alation [data catalog, field definitions, lineages, etc.] ✦

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LEVEL 3: DATA DEVELOPMENT

I Need To:	Possible Staff Roles:	Skills You Might Need:	Related Technology:	Training:
<ul style="list-style-type: none"> Combine local CSU data with campus data Develop data structures by combining pertinent datasets within the data spoke environments 	<ul style="list-style-type: none"> Data Analyst Data Developer Data Modeler ETL Engineer QA Engineer Software Developer/Analyst Software Engineer 	<ul style="list-style-type: none"> Familiarity with UT Data Hub structure, processes, and standards Working experience of relational databases and concepts Working experience of data transformation techniques Working experience of data validation techniques Working experience of data modeling techniques 	<ul style="list-style-type: none"> SQL PL/PGSQL Python, R AWS technologies such as Glue, Lambda, etc. Erwin Data Modeler ETL tools such as DataStage, Informatica, etc. Alation 	<p>General Essential:</p> <ul style="list-style-type: none"> Advanced SQL PostgreSQL development Data Modeling techniques AWS Foundational training AWS Developer training <p>UT-Specific Essential:</p> <ul style="list-style-type: none"> Orientation to the UT Data Hub ✦ Basic training in Alation [data catalog, field definitions, lineages, etc.] ✦

LEVEL 4: DATA INTEGRATIONS DEVELOPMENT

I Need To:	Possible Staff Roles:	Skills You Might Need:	Related Technology:	Training:
<ul style="list-style-type: none"> Build data pipelines that provide for local CSU data to be moved to/stored in/connected to the UT Data Hub 	<ul style="list-style-type: none"> Data Engineer DevOps Engineer QA Engineer Software Developer/Analyst Software Engineer 	<ul style="list-style-type: none"> Familiarity with UT Data Hub structure, processes, and standards Working experience of relational databases and concepts Knowledge of APIs Data extraction techniques Data formats and transmit techniques Data validation techniques Quality Assurance techniques 	<ul style="list-style-type: none"> SQL PL/PGSQL Python AWS technologies such as Glue, Lambda, etc. ETL tools such as DataStage, Informatica, etc. Alation 	<p>General Essential:</p> <ul style="list-style-type: none"> Advanced SQL PostgreSQL development AWS Foundational training AWS Developer training AWS DevOps training <p>UT-Specific Essential:</p> <ul style="list-style-type: none"> Orientation to the UT Data Hub ✦ Basic training in Alation [data catalog, field definitions, lineages, etc.] ✦