

EVOLVING A GIS TRAINING PROGRAM

From Launch to Legacy



Evolving a GIS Training Program
From Launch to Legacy



11/13/2025



Alejandra Zermeno

GIS Business Analyst

- Coordinate & lead Quarterly Meetings
- Quarterly newsletters
- GIS Community outreach
- GIS Hub site SME and trainer
- Capture, evaluate, & prioritize GIS-focused projects
- Provide business & data analytics and/or proofs of concept



Ashley Schutt

GIS Training Coordinator

- Geospatial Conference lead planner
- GISP Study groups
- AGOL/CP app SME
- Houston area in person training contact
- Monthly newsletters
- Task tracking expert
- Create training content
- Teach classes



Brad DeHart

GIS Trainer

- GIS Automation SME
- GIS Community Wiki product owner
- GIS Roadmap
- ELM SME
- Monthly newsletters
- Create training content
- Teach classes



Catherine Hodde-Pierce

GIS Training Program Coordinator

- Liaison with GIM team leadership
- GIS Publisher training
- Field Maps and Survey123 SME
- Lunch and Learn coordination
- Work closely with ITD
- Coordinate custom classes
- Create training content
- Teach classes

WHY GIS TRAINING IS IMPORANT





UNDERSTANDING USER TYPES



An individual who is just starting to explore and learn about GIS.



Someone with a basic or occasional level of familiarity with GIS.

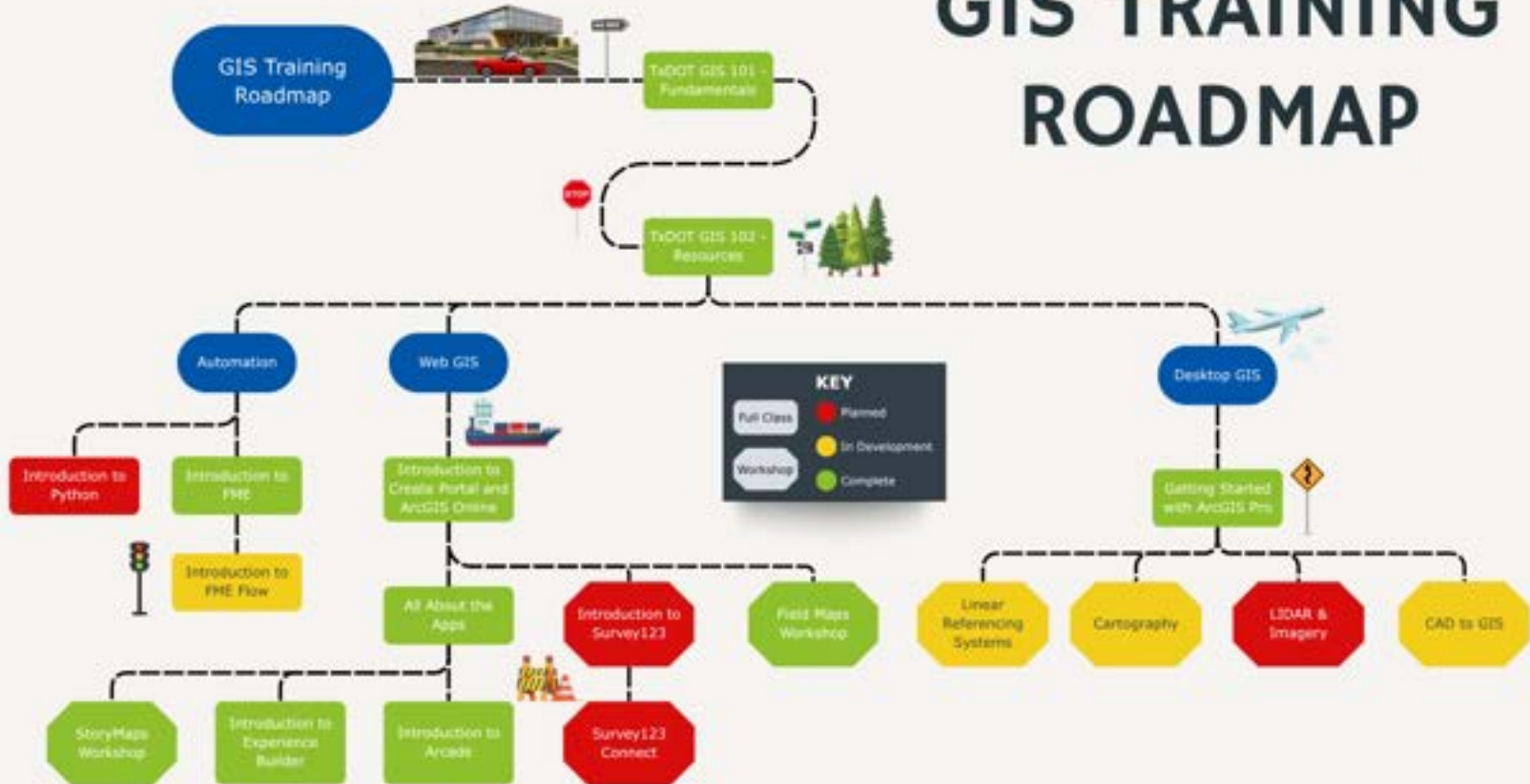


Someone who possess in-depth technical skills, spatial data analysis proficiency, and the ability to manipulate GIS software and data for complex geospatial tasks.

ASSESSING NEEDS



GIS TRAINING ROADMAP



PATHWAYS TO LEARNING



Classroom
Based



Online
Courses



Workshops &
Hands-On
Sessions



Self-Guided
Course



Custom
Courses

TRAINING & TALENT DEVELOPMENT STRATEGIES



Leverage In-
House Expertise



Utilizing External
Training



Hiring Individuals
with Diverse Skills

CREATING TRAINING MATERIALS

Introduction to All about the Apps

Last Updated: September 22, 2025

Initial Date: May 6, 2025

Next classes:

- September 30, 2025
- November 3, 2025 (ExDIO Conference)
- November 17, 2025 (TxDOT Geospatial Conference)

Format: Virtually on Teams or In-Person (Conferences)

Content Delivery: StoryMap (in Create Portal)

Length: 1 -day; 8:30-4:30

Frequency: Every 6 months

Prerequisites: Create Portal Creator ("User")

Student Audience: Users new to web GIS and have completed Introduction to Create Portal and ArcGIS Online.

Course Objective: Users will understand the different app builders and their intended uses.

Description: This course introduces users to the wide range of app builders available in Create Portal and ArcGIS Online. Participants will learn how to evaluate which app best fits their specific needs and gain hands-on experience building applications. The course explores four key app builders—**Instant Apps, StoryMaps, Dashboards, and Experience Builder**—through guided instruction and practical exercises.

Course Outline - NEW:

8:30-9:00 - Introductions & Login

9:00 - 9:30 - Overview of Esri Applications (templates, navigation, criteria, etc.)

Brief Field Apps Overview

9:30 - 9:40 - Instant App Demo (layout/template and toolbars)

9:40 - 10:15 - Instant App Lesson

10:15 - 10:30 - Break

10:30 - 10:45 - Dashboard Demo (layout, toolbars, elements)

10:45 - 11:45 - Dashboard Lesson

11:45 - 12:00 - Knowledge Check (Instant App + Dashboard)

12:00 - 1:00 - Lunch

1:00 - 1:15 - ExB Demo (templates, express mode, toolbars)

1:15 - 2:15 - ExB Express Mode Lesson

2:15 - 2:30 - Break

2:30-2:45 - StoryMap Demo (elements, themes, examples)

2:45- 3:45 - StoryMap Lesson

Bonus Lesson - Survey123 - Create a browser survey and add to your SH

3:45 - 4:00 - Knowledge Check (ExB + StoryMap + S123)

4:00 - 4:15 - Which App is Right for My? Survey

4:15 - 4:30 - TxDOT Apps, Governance, Publisher Criteria, & Training Resources

COURSE CERTIFICATES



ULTIMATE TRAINING DASHBOARD

Ultimate Training Dashboard

Select a Class
Class ID#

Select a Date
Class Date

Select a Student
Web ID# (e.g. 10000000000000000000)

TxDOT Courses Taught in 2025

18

TexasMVGIS Courses Taught in 2025

7

Enrollment Count



Name	Email Address	Division	Status	Attendance
Erica Rice	erice.rice@txdot.gov	Bridge		Attended
Tyler Brannon	tbrannon@txdot.gov	Workforce		Attended
Tyler Brannon	tbrannon@txdot.gov	Workforce		Attended
Angela Brannon	angela.brannon@txdot.gov		Not	Attended
Eric Hoad	ehoad@txdot.gov	Workforce		
Chadson Hill	ghill@txdot.gov	Financial Management		Skipped
Luiz Lebraga	llebraga@txdot.gov	Transportation Planning/IT		
David Ward	dward@txdot.gov		Self	
Eden Gonzalez	edg@txdot.gov		Onleave	
Tam Harbo	tharbo@txdot.gov	Transportation Planning/IT		
Angela Brannon	angela.brannon@txdot.gov		Not	
Angi Hoad	ahoad@txdot.gov		Corporate Client	
Alex Ramirez	alex.ramirez@txdot.gov		Member	
Walter Redwood	wredwood@txdot.gov	Transportation Planning/IT		
Walter Redwood	wredwood@txdot.gov	Transportation Planning/IT		
Janice	jand@txdot.gov	Traffic Safety Division		See Her WFO completed
Rebecca Olney	rolney@txdot.gov	Transportation Planning/IT		Skipped
Rob Currie	rcurrie@txdot.gov	Transportation Planning/IT		Skipped
Walter Brannon Hill	wbrannonhill@txdot.gov	Financial Management		Skipped

STORYMAPS



E-LEARNING OPPORTUNITIES

SELF-PACED

- GIS101 | Intro to GIS
- GIS102 | Intro to GIS COP
- Migrating from ArcMap to ArcGIS Pro

GIS 101 - Fundamentals

[CLICK HERE to register](#)

Delivery Method: e-Learning

Location: Virtual

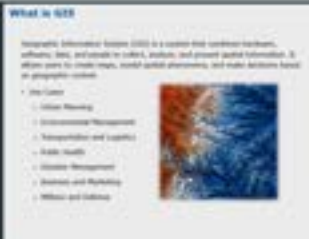
GIS 102 - Resources

[CLICK HERE to register](#)

Delivery Method: e-Learning

Location: Virtual

- HR Hosted
 - Formatted
 - Quizzes
- Certification Prep
- Assignments



LEARNING PLANS

- TxDOT Specific Learning Plans
- Certification Learning Plans

Learning Plan

Introduction to ArcGIS Pro @ TxDOT

Created by TXDOT_GIS on August 26, 2021

[View Progress](#)

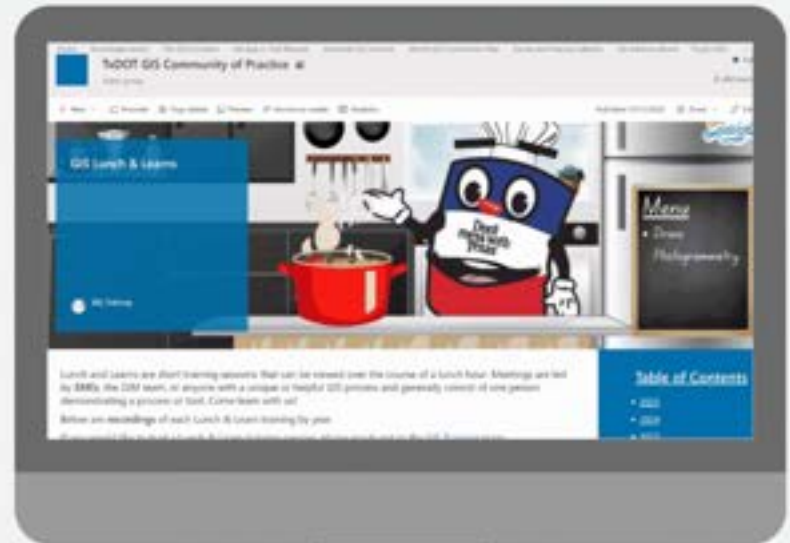
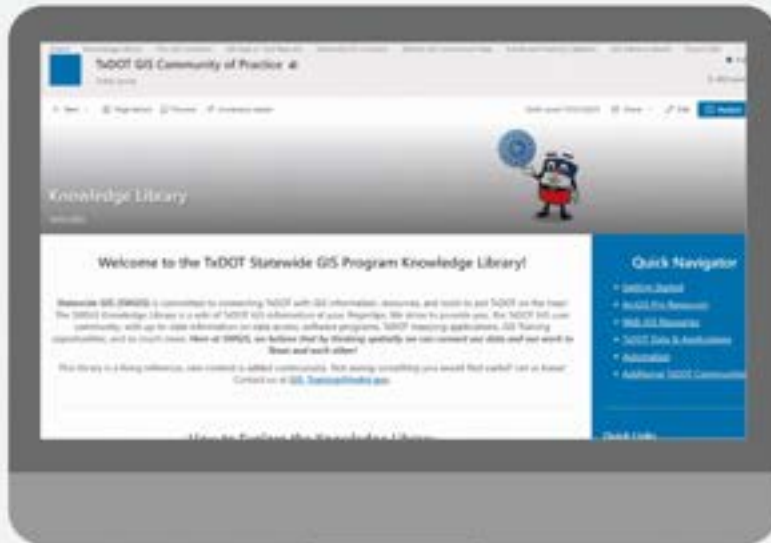


In Progress



70 Learners Enrolled

WIKI LIBRARY & VIDEO REPOSITORY



BEST PRACTICES FOR DELIVERY

1

Effective
Training
Environments

2

Real World
Examples

3

Hands-on
Exercises

4

Assessing
Progress on
the Fly

5

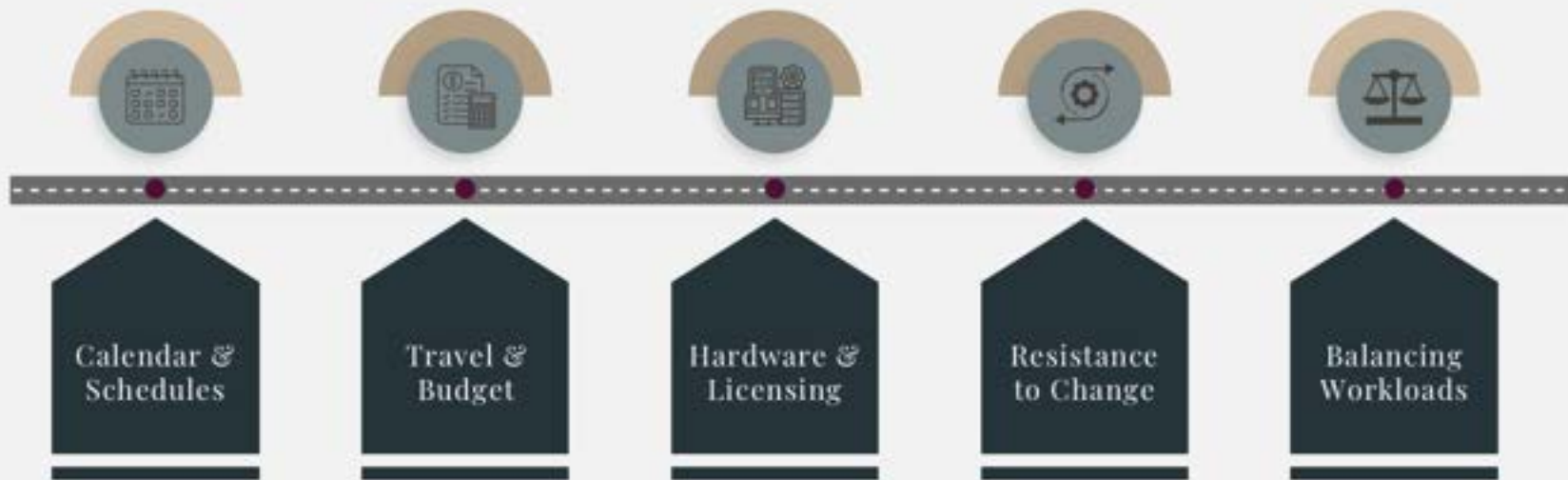
Encouraging
Active
Participation

6

Flexibility &
Willingness to
Change



COMMON ROADBLOCKS & SOLUTIONS



01 Newsletters

Monthly training newsletters provide staff with updates on learning opportunities and resources, keeping users engaged with evolving tools and practices.



02 Lunch & Learns

GIS Lunch and Learns are informal, hour-long sessions held bi-weekly and showcase tools, topics, resources, and best practices.



03 Office Hours

Weekly office hours are a place for staff to connect with the GIS community, hear updates on tools, apps, events, and resources, and receive hands-on support.



04 Quarterly User Meetings

Quarterly User Meetings highlight staff achievements while sharing new tools, apps, policies, and projects, and keep the community informed and engaged.



05 Community of Practice

The GIS Community of Practice provides a collaborative space on Teams for discussion and idea-sharing, with useful resources available on SharePoint, including training course registration.



WHAT WE DO



Knowledge Library 06

A go-to collection of resources, tutorials, tool links, and videos, serving as the primary location for help on GIS topics.



Subject Matter Experts 07

SMEs play a vital role in GIS by sharing their specialized knowledge and collaborating with other users to strengthen the overall community's skills.



Training Roadmap 08

The GIS Training Roadmap helps users identify the best learning path while showing how classes build on each other and connect to support skill development.



Standards & Governance 09

Standards and governance are essential for ensuring consistency, quality, and accountability while providing clear guidance for how tools, data, and skills are developed and applied.



Geospatial Conference 10

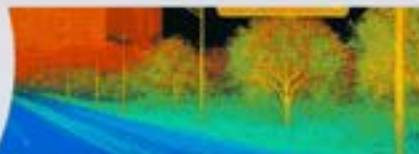
The annual Geospatial Conference offers users opportunities to learn from instructors, present their own applications and processes, engage in networking, and enhance skills while fostering collaboration across the community.



GEOSPATIAL CONFERENCE



Geospatial Conference



2025 Geospatial Conference

More than Maps!

Date: November 18th-20th

Location: Texas State University, San Marcos

Address: 601 University Dr. San Marcos, TX 78666

Join us at the upcoming TxDOT Geospatial Conference this Fall to discover how spatial technology is making an impact across TxDOT. This year's theme, *More Than Maps*, highlights the powerful ways geospatial tools are driving decisions, improving workflows, and supporting projects across the agency. Connect with peers, share your work, and gain new insights into how location-based technology is shaping the future of transportation at TxDOT.

We are planning for an even bigger event for 2025 and will be combining forces with *Right of Way*, *Survey*, *Remote Sensing*, *Training*, and *GIS* to bring you a more interdisciplinary Geospatial Conference.

▼ Detailed Agenda

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- [Event Website](#)

- [2024 GIS Conference](#)
- [2023 GIS Conference](#)

**FINAL STOP—
WHAT DO YOU
THINK?**



CONTACT & RESOURCES

