

ITU Africa-BB-Maps | Intermediate GIS and Data Management for Broadband Mapping Training in Malawi

24 – 28 August 2026 | [Crossroads Hotel](#), Lilongwe, Malawi

Day 1 | Monday, 24 August

Time	Sessions	Activity
08:30 – 09:00	Registration	Delegate arrival
09:00 – 09:30	Welcome and Introductions	Opening Remarks : - Dr. Mayamiko Nkoloma, Director General, MACRA - Mr. Sven Ruesch, Team Leader for Sustainable Investments, EU Delegation in Malawi - Mr. Dana Jon Kamason, Project Manager, ITU
09:30 – 09:45	Coffee break	Group photo at start of break
09:45 – 11:15	Lesson 1: Editing in ArcGIS Pro	Workstation checks, Course introduction. Explain the ArcGIS Pro editing workflow and configure project, map, measurement, autosave, selectability, and editability settings for effective editing.
11:15 – 12:30	Lesson 2: Preparing to edit GIS data	Identify editable data and spatial-reference requirements, prepare an editing map, and enable editor tracking to document changes.
12:30–13:30	Lunch break	
13:30 – 15:30	Lesson 3: Creating 2D features	Select suitable feature templates and construction methods to create accurate 2D geometry and populate its attributes.
15:00 – 15:15	Coffee break	
15:15 – 16:30	Lesson 4: Maintaining spatial integrity	Use snapping, reference grids, constraints, and undo/redo to create accurately placed features and maintain spatial integrity.
16:30 – 16:45	Discussion and Wrap up	
	END OF DAY 1	

Day 2 | Tuesday, 25 August

Time	Sessions	Activity
08:30 – 09:00	Morning Coffee & Recap of day 1	
09:00 – 10:30	Lesson 5: Modifying 2D features	Evaluate feature geometry and use modification tools to relocate points, reshape polygons, continue lines, and combine features.
10:30 – 10:45	Coffee Break	
10:45 – 12:00	Lesson 6: Editing attributes	Investigate and edit attributes using geodatabase schema, add and update feature attributes, and calculate field values.
12:00 – 13:00	Lunch break	
13:00–14:30	Lesson 7: Using topology	Use map and geodatabase topology to maintain coincident geometry, validate topology, locate and correct errors, and mark valid exceptions.
14:30–14:45	Coffee break	
14:45–16:15	Lesson 8: Editing annotation	Create and modify standard and feature-linked annotation, including its text, position, rotation, and vertices.
16:15–16:30	Discussion and Wrap up	
	END OF DAY 2	

Day 3 | Wednesday, 26 August

Time	Sessions	Activity
08:30 – 09:00	Morning Coffee & Day 2 Recap	
09:00 – 10:30	Lesson 9: Creating and modifying 3D features	Create and edit 3D and multipatch features by sketching, rotating, extruding, and adding faces in an ArcGIS Pro scene.
10:30 – 10:45	Coffee Break	
10:45 – 12:15	Lesson 10: Implementing the editing workflow	Apply the complete editing workflow to prepare the environment, modify existing geometry, create features, and confirm results.
12:15 – 13:15	Lunch Break	
13:15 – 14:45	Lesson 11: What is a multiuser geodatabase?	Explain multiuser geodatabase architecture, components, software tiers, and user roles, then select tools to create an enterprise geodatabase.
14:45 – 15:00	Coffee Break	
15:00 – 16:30	Lesson 12: Connecting to the geodatabase	Configure and manage authenticated, version-compatible geodatabase connections using client software, connection files, and ArcGIS Pro tools.
16:30 – 16:45	Discussion and Wrap up	
	END OF DAY 3	

Day 4 | Thursday, 27 August

Time	Sessions	Activity
08:30 – 09:00	Morning Coffee & Day 3 Recap	
09:00 – 10:30	Lesson 13: Loading data into the geodatabase	Establish a data-owner account and load, append, import, update, and automate datasets while applying appropriate environment settings.
10:30 – 10:45	Coffee Break	
10:45 – 12:15	Lesson 14: Configuring privileges	Design users and roles, secure credentials, assign data privileges, and test access to enforce appropriate geodatabase permissions.
12:15 – 13:15	Lunch Break	
13:15 – 14:45	Lesson 15: Managing storage	Explain spatial storage options and customize DBTUNE configuration parameters and keywords to control how geodatabase data is stored.
14:45 – 15:00	Coffee Break	
15:00 – 16:30	Lesson 16: Maintaining the geodatabase	Maintain performance by managing indexes, statistics, compression, locks, and scheduled or automated administrative tasks.
16:30 – 16:45	Group Discussion & Conclusion	
	END OF DAY 4	

Day 5 | Friday, 28 August

Time	Sessions	Activity
08:30 – 09:00	Morning Coffee & Day 4 Recap	
09:00 – 10:30	Lesson 7: Associating data	Create and use query layers and database views, and select the appropriate method for associating external database data with GIS workflows.
10:30 – 10:45	Coffee Break	
10:45 – 12:15	Lesson 8: Applying the geodatabase workflow	Apply the end-to-end workflow to create, load, secure, and maintain a multiuser geodatabase while recognizing administrator responsibilities.
12:15 – 13:15	Lunch Break	
13:15 – 14:45	Collaborative Discussion and knowledge sharing	
14:45 – 15:00	Coffee Break	
15:00 – 15:30	Post-training Skills Assessment	Post-training Skills Assessment
15:30 – 16:30	Closing remarks Certificate ceremony END OF TRAINING	Closing Remarks : - Mr. Dana Jon Kamason, Project Manager, ITU - Mr. Sven Ruesch, Team Leader for Sustainable Investments, EU Delegation in Malawi - Dr. Mayamiko Nkoloma, Director General, MACRA Individual and group photograph with certificates
19:30 – 21:30	Reception dinner	Meet at Woodlands Hotels and Resorts for reception dinner. Address: Youth Drive, City Center, Lilongwe, Malawi