

Working with Desktop ArcGIS

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Geomatics Course

Course Title	Course Description	Duration (Days)
Working with Desktop ArcGIS	<p>This course introduces the fundamentals of using ArcGIS Desktop applications. It also covers the approach of capturing data, analyzing GIS data, layout design, and data management in ArcInfo.</p> <p><i>Objectives: After completion of the course, participants will be able to:</i></p> <ol style="list-style-type: none"> 1. <i>Understand the overview of ArcGIS and its component.</i> 2. <i>Use the basic functionality of ArcGIS Application to produce a map.</i> 3. <i>Create shapefiles as well as a geodatabase.</i> <p><i>Pre-requisite: Basic knowledge in Windows Environment</i></p> <p>Course Outline:</p> <ul style="list-style-type: none"> • Chapter 1: Introduction to GIS <ul style="list-style-type: none"> ▪ What is GIS? ▪ Components of Geographic Data ▪ What can GIS do? • Chapter 2: ArcGIS Desktop <ul style="list-style-type: none"> ▪ What is GIS Database? ▪ ArcGIS Components ▪ ArcGIS Applications ▪ Formats of Feature Data • Chapter 3: Exploring ArcCatalog <ul style="list-style-type: none"> ▪ What you can do with ArcCatalog ▪ Creating Shapefiles ▪ Previewing Existing Shapefiles ▪ Create/Edit the Metadata • Chapter 4: Exploring ArcMap <ul style="list-style-type: none"> ▪ Basic Tools ▪ Editing Tools ▪ Viewing Tools ▪ Exploring Map Data ▪ Snapping Environment ▪ Creating Features from other features • Chapter 5: Adding Fields, Data & Labels <ul style="list-style-type: none"> ▪ Adding fields in a table ▪ Adding Data to the fields ▪ Symbols ▪ Labels ▪ Using Table of Contents ▪ Layers Visible Scale Range ▪ Geoprocessing Wizards ▪ Join Attribute Tables • Chapter 6: Layout View <ul style="list-style-type: none"> ▪ Layout Design ▪ Switching to Layout View ▪ Switching to Data View ▪ Overview of Layout Mode ▪ Setting Page Layout in Layout View ▪ Customised Data View ▪ Grids 	3

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	<ul style="list-style-type: none"> ▪ Adding Data Frame ▪ Adding Elements into Layout View ▪ Templates • Chapter 7: Georeferencing <ul style="list-style-type: none"> ▪ About Georeferencing ▪ Aligning Raster Data ▪ View Link Table • Chapter 8: Hyperlink <ul style="list-style-type: none"> ▪ About Hyperlink ▪ Field Based Hyperlinks ▪ Dynamic Hyperlinks ▪ Accessing a Feature's Hyperlink • Chapter 9: Geodatabase <ul style="list-style-type: none"> ▪ About Geodatabase ▪ Creating a Personal Geodatabase ▪ Creating Feature Dataset ▪ Creating Feature Class ▪ Working with Annotation in Geodatabase ▪ Converting Labels to Annotation • Chapter 10: Annotation in Geodatabase <ul style="list-style-type: none"> ▪ Creating a New Annotation Feature Class ▪ Constructing Horizontal Annotation ▪ Constructing Straight Annotation ▪ Constructing Annotation with a Leader Line ▪ Constructing Annotation according to a curve ▪ Edit Annotation ▪ Modify Annotation Format • Chapter 11: Dimension <ul style="list-style-type: none"> ▪ About Dimension ▪ Dimension Types ▪ Dimension Style ▪ Creating New Dimension Style ▪ Modifying a Dimension Feature Style 	