

# Working with ArcSDE Using ArcInfo

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## Geomatics Course

Course Title	Course Description	Duration (Days)
<b>Working with ArcSDE Using ArcInfo</b>	<p>This course introduces the detail architecture and fundamental concepts of the ArcSDE software and storage. Participants will use and load data into ArcSDE and gain the understanding of how ArcSDE works and utilizes in ArcGIS. They can view and query layers in ArcSDE database using ArcCatalog and ArcMap. They will create new ArcSDE layers by loading existing file-based geographic data sources such as shapefiles and images into the server. They will also learn to perform multi-user editing of geodatabase feature classes and much more.</p> <p><i>Objectives: After completion of the course, participants will be able to:</i></p> <ol style="list-style-type: none"> <li>1. Use and load data into ArcSDE.</li> <li>2. Understanding of how ArcSDE works and how it is utilized in GIS.</li> <li>3. View and query layers in an ArcSDE database using ArcCatalog and ArcMap.</li> <li>4. Create new ArcSDE layers by loading existing, file-based geographic data sources into an ArcSDE server.</li> <li>5. Learn on how to perform multi-user editing of the geodatabase feature classes.</li> </ol> <p><i>Pre-requisite: Introduction to GIS &amp; Working with Desktop ArcGIS</i></p> <p>Course Outline:</p> <ul style="list-style-type: none"> <li>• Chapter 1: Introduction to ArcSDE using ArcInfo <ul style="list-style-type: none"> <li>▪ ArcGIS Overview</li> <li>▪ GIS in Enterprise</li> <li>▪ Software Required</li> </ul> </li> <li>• Chapter 2: Spatial Data Formats <ul style="list-style-type: none"> <li>▪ ESRI Spatial Data File Format</li> <li>▪ Storage Options</li> <li>▪ Vector File Format</li> <li>▪ Raster File Format</li> <li>▪ Geodatabase</li> <li>▪ Geodatabase Capability and Functionality</li> <li>▪ Accessing Geodatabase</li> <li>▪ What is ArcSDE?</li> <li>▪ ArcSDE Geodatabase</li> <li>▪ ArcSDE Feature Class</li> <li>▪ Client/Server Model</li> </ul> </li> <li>• Chapter 3: ArcSDE Software and Storage Architecture <ul style="list-style-type: none"> <li>▪ ArcSDE System Components</li> <li>▪ ArcSDE Application Server Connection</li> <li>▪ Application Server Connection Life Cycle</li> <li>▪ ArcSDE Direct Connection</li> <li>▪ Communication with TCP/IP</li> <li>▪ Creating an Application Server Connection</li> <li>▪ Creating a Direct Connection with Oracle</li> <li>▪ Creating a Direct Connection with SQL Server</li> </ul> </li> </ul>	2

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Course Title	Course Description	Duration (Days)
	<ul style="list-style-type: none"> <li>▪ Summary of Roles</li> <li>▪ ArcSDE Repository</li> <li>▪ Feature Class Storage</li> <li>▪ ArcSDE Binary Storage Model</li> <li>▪ ArcSDE Spatial Types</li> <li>▪ Spatial Types</li> <li>▪ Retrieving Data from the Server with SQL</li> <li>▪ Query Filters</li> <li>▪ Query Response Time</li> <li>▪ Administration Tools</li> <li>• Chapter 4: Working with ArcSDE using ArcInfo                             <ul style="list-style-type: none"> <li>▪ Creating Geodatabase</li> <li>▪ Managing Geodatabase</li> <li>▪ Vector Data Loading</li> <li>▪ Raster Data Loading</li> </ul> </li> <li>• Chapter 5: Multi-user Editing                             <ul style="list-style-type: none"> <li>▪ Multi-user Editing</li> <li>▪ Making Data Editable</li> <li>▪ Versioned Geodatabase</li> <li>▪ Edit to same Version</li> </ul> </li> <li>• Chapter 6: Versioning                             <ul style="list-style-type: none"> <li>▪ Multi-Versioning</li> <li>▪ Version Highlights</li> <li>▪ Version Features</li> <li>▪ Reconcile</li> <li>▪ Posting</li> <li>▪ What Versioning Offers</li> </ul> </li> </ul>	