PREREQUISITES AND RECOMMENDATIONS

Note: The following stated prerequisites for each training course should be fulfilled by the participants who will attend the respective training class. The objective is to improve the delivery of each training session and to maximize the learning for the participants.

ESRI Courses	Prerequisites and recommendations
ArcGIS Desktop	
Introduction to ArcGIS I	Students should know how to use Windows®-based software.
Introduction to ArcGIS II	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* or have equivalent knowledge.
Advanced Analysis with ArcGIS	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* and *Introduction to ArcGIS II* or have equivalent knowledge.
Cartography with ArcGIS	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* or have equivalent knowledge.
Creating and Editing Parcels with ArcGIS	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS 9* or have equivalent experience. They should also be familiar with tax mapping terminology and practices.
Data Production and Editing Techniques	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* and *Introduction to ArcGIS II* or have equivalent knowledge.
QA/QC for GIS Data	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS 9* and *Introduction to ArcGIS II* or have equivalent knowledge. Completion of *Building Geodatabases* is recommended.
Geodatabase	
Building Geodatabases	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* and *Introduction to ArcGIS II* or have equivalent knowledge.
Geodatabase Design Concepts	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* and *Introduction to ArcGIS II* or have equivalent knowledge.
ArcGIS Server 9.2 Courses	
Data Management	
ArcGIS Server Enterprise Configuration and Tuning for SQL Server	Students should have experience with SQL Server database administration or application development. Although these courses are not required, students will benefit from completion of *Introduction to ArcGIS I*, *Introduction to ArcGIS II*, or *Building Geodatabases*.
ArcGIS Server Enterprise Configuration and Tuning for Oracle	Students should have experience with Oracle database administration or application development. Although these courses are not required, students will benefit from completion of *Introduction to ArcGIS I*, *Introduction to ArcGIS II*, or *Building Geodatabases*.
Data Management in the Multiuser Geodatabase	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS 9* or have equivalent knowledge. Students should also be familiar with basic RDBMS concepts.
Managing Editing Workflows in a Multiuser Geodatabase	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* or have equivalent knowledge. Familiarity with ArcSDE architecture and working on a Windows platform is also required.

ESRI Singapore
Putting knowledge into place

ESRI Courses	Prerequisites and recommendations
Introduction to the Multiuser Geodatabase	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* and *Introduction to ArcGIS II* or have equivalent knowledge. No database administration experience is required.
Web Based GIS	
Introduction to ArcGIS Server	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* or have equivalent knowledge.
Developing Applications with ArcGIS Server (.NET)	Students should have completed *Introduction to ArcGIS Server* or have equivalent knowledge. Students should also have experience programming with ASP.NET 2.0, COM, and ArcObjects. Familiarity with Internet protocols, Web services, and the *ArcGIS Desktop Developer Guide* is recommended.
Developing Applications with ArcGIS Server (Java)	Students should have completed *Introduction to ArcGIS Server* or have equivalent knowledge. Students should also have experience programming with J2EE and JSP. Familiarity with JavaServer Faces, Internet protocols, Web services, and the *ArcGIS Desktop Developer Guide* is recommended.
ArcGIS Desktop Programming	
Introduction to Programming ArcObjects with VBA	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* or have equivalent knowledge. A basic proficiency in Visual Basic or VBA programming is also required. It is mandatory that students gain basic proficiency with VB/VBA before taking this course. Students in this course should already know how to: ▪ Declare and use variables. ▪ Write function and sub-procedures. ▪ Use conditional statements (If Then Else, Select Case). ▪ Work with loops (Do and While loops). ▪ Create forms, add controls, and write event procedures. Those without the requisite VB/VBA experience can gain proficiency before taking this course by taking *Learning Visual Basic for Applications for New ArcGIS Developers*, Visual Basic for Applications Web workshops, a third-party introductory VB/VBA course, or by reading the first four chapters of the *Getting to Know ArcObjects* book by ESRI.
Introduction to Geoprocessing Scripts using Python	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* and *Introduction to ArcGIS II* or have equivalent knowledge. Basic programming skills, such as using loops and conditional statements, are also required.
Writing Advanced Geoprocessing Scripts Using Python	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop*, *Introduction to ArcGIS II*, and *Introduction to Geoprocessing Scripts Using Python* or have equivalent knowledge. Students should have experience applying the concepts and syntax taught in the introductory course. In particular, experience writing Python scripts that contain variables, loops, and standard ArcGIS geoprocessing tools is required.
Extending ArcGIS Desktop Applications	Students should have completed *Introduction to Programming ArcObjects with VBA* or have six months' experience programming with ArcObjects. Students should also have experience programming with COM and Visual Basic 6, Visual Basic .NET, or C#. Students should be familiar with ArcObjects developer resources such as the Developer Help and object model diagrams.
ArcGIS Engine Programming	
Developing Application with ArcGIS Engine	Students should have completed *Introduction to Programming ArcObjects with VBA* or have six months' experience programming with ArcObjects. Students should also have experience programming with COM and Visual Basic .NET or Java. Students should review the ArcGIS Desktop Developer Guide. Prior completion of *Extending ArcGIS Desktop Applications* is recommended.
ArcGIS Desktop Extension	
Working with ArcGIS Network Analyst	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* and *Introduction to ArcGIS II*. Completion of *Building Geodatabases* is recommended.
Working with ArcGIS Spatial Analyst	Students should have completed *Introduction to ArcGIS I* or *Learning ArcGIS Desktop* or have equivalent knowledge.