



## ArcGIS Advanced

(SAQA)

Duration: 5 Days (40 Hours)

### Registered unit standards:

Demonstrate an understanding of map composition elements in map production (**SAQA US ID: 258656, NQF Level: 6, Credits: 4**)

Develop simple SQL queries (**SAQA US ID: 258642, NQF Level: 6, Credits: 4**)

### Support data-driven decision making.

In this course, you will acquire theoretical and practical advanced skills in understanding and using Geographic Information Systems (GIS). The course addresses 'spatial problem solving' by focusing on both the theoretical / conceptual and practical aspects of GIS data and spatial analysis. Students learn how to prepare and integrate spatial data into advanced analysis workflows, visualise the data using cartographic techniques as well as identify and interpret spatial patterns.

Note: Course concepts apply to ArcGIS Desktop 10.4, 10.5.

### Goals



**Analysing** location and temporal patterns



**Automate** analysis tasks using geoprocessing models.



**Build SQL queries and** examine distribution patterns.



**Model** temporal data to analyze and visualize change over time.

### Who should attend?

Refreshing ArcGIS Skills

GIS Professionals

#### Suggestion

Completion of **ArcGIS II: Essential Workflows** or **ArcGIS Standard** or equivalent knowledge.

#### Software

Esri will provide the following software to use during class:

- **ArcGIS Desktop 10.5 (Basic, Standard or Advanced)**
- **ArcGIS Spatial Analyst**
- **SQL server**