

**FORM T-1: TRAINING COURSE SUMMARY SHEET**

V1

**NORPLAN** 

Macintosh HD:Users:sveinstoveland:Dropbox:Hydrogeology Afghanistan:Training\_capacitybuilding:Course\_4.19\_ArcGIS  
 Intermediate level:4.19 ArcGIS Software - Intermediate.docx

<b>Course title:</b> ArcGIS Software - Intermediate		<i>Course no</i> 4.19	
		<i>Date prepared:</i> 10 August 2014	
<b>Training purpose</b>	Understand main concepts that define Geographic Information Systems. Describe the geographic space with concepts and terms commonly used to build operating models in GIS. Know and use GIS and its geo-processes and functions. Use GIS software to perform different spatial analysis and satellite image digital analysis. Prepare documents of medium complexity, consisting of text, maps, graphs and tables to clearly present the design specifications of a data model for GIS application.		
<b>Target group</b>	This course is designed for those who have no prior education or workplace experience with GIS or ArcGIS software. Managers and GIS support staff members who frequently use ArcGIS software and would simply like to understand how GIS fits into their organization will also benefit. Those with an education in or workplace experience with GIS but no ArcGIS software experience will also benefit greatly. Knowledge of Windows- based software for basic file management and browsing is required. The course is entry level, and quickly runs up to intermediate-level GIS topics. The course will also benefit anyone who is self-taught, in ArcGIS, yet wanting details and work-flow strategy. <div style="float: right; width: 30%;">           National technical fields related people from MRRD, NGOs and line ministries.         </div>		
<b>Course details:</b>	Course language(s)	English and National languages	
	Duration(days): 3	No. participants/ course: 15	Theoretical 10% Practical 90%
	Planned course location(s): Kabul	Responsible presenter: GIS Trainer	Handouts to be prepared by: Presenter
<b>Summary syllabus</b>	<p><u><b>Day 1</b></u></p> <ul style="list-style-type: none"> <li>• Review of ArcGIS introductory course (applications and usage)</li> <li>• Understanding GIS Data formats</li> <li>• Working with Shapefiles and Feature classes</li> <li>• Display, Digitizing and editing Maps</li> <li>• Creating water body features</li> </ul> <p><u><b>Day 2</b></u></p> <ul style="list-style-type: none"> <li>• Working with Data Frame</li> <li>• Join and relate external table with current feature attribute table</li> <li>• Selection complete commands</li> <li>• Setting Geodatabase</li> <li>• Working with Spatial join</li> <li>• Classification of vector data using different ways</li> <li>• Creating new toolbox for modular builder</li> <li>• Perform editing on current vector data</li> </ul> <p><u><b>Day 3</b></u></p> <ul style="list-style-type: none"> <li>• Geoprocessing</li> </ul>		

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	<ul style="list-style-type: none"><li>• Address locator create &amp; find.</li><li>• Using field calculator for statistics calculations.</li><li>• Different between subtype and domain</li><li>• Creating annotation of water body feature</li><li>• Topologies setting rules for water body vector data</li><li>• Raster classification (calculating raster data, DEM/TIN , converting classification format</li><li>• Labels (Label Styles, Converting to Annotation)</li><li>• Annotation</li><li>• Extensions (Hydrology)</li><li>• Performed query functions on vector data</li></ul> <p><b>Day 4</b></p> <ul style="list-style-type: none"><li>• Project 1 ( Water management )</li><li>• Project 2 ( Finding water links )</li><li>• Project 3 ( Statistics analyzing water body places through DEM /TIN)</li><li>• Quick review of previous topics</li></ul>
<b>Training equipment required</b>	Personal computers one for each participant with the required software. For training, student or trial licenses will be used.
<b>Training material</b>	Training Material according to course topics trainer will provide to main training provider
<b>Field/ practical training.</b>	90% practical training for that we used ArcGIS 10x software no need to go to field.
<b>Prepared by</b>	Prepared by: Muhammad Iqbal Rasheed, GIS Trainer and Prof. Zarinkhail, GIS-MIS Adviser