

## Hydrogeological Survey in Faryab- Afghanistan

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

V1

**NORPLAN** 

Macintosh HD3:Users:sveinstoveland:Dropbox:Hydrogeology Afghanistan:Training\_capacitybuilding:GIS Course 4.3  
docs:4.3 ArcGIS Spatial Analysis.docx

<b>Course title:</b>  <b>ArcGIS Spatial Analyst</b>		<i>Course no</i> 4.3	
		<i>Date prepared:</i> 30/Jul/2013	
<b>Training purpose</b>	To enable GIS users to use existing data and do spatial analysis according to surface water and elevation models.		
<b>Target group</b>	Education level: (degree/ techn, etc): Participants should be familiar with using GIS and have technical knowledge in geology, hydrogeology and general geography.	National / Provincial related fellows	
<b>Course details:</b>	Course language(s)	English and National languages	
	Duration(days): 1	No. participants/ course: 15	Theoretical /practical/training? Theoretical and practical
	Planned course location(s): Kabul	Responsible presenter: GIS Local Trainer	Handouts to be prepared by: Presenter
<b>Summary syllabus</b>	<p>Introduction to Geo-Databases:</p> <ul style="list-style-type: none"> <li>- What is Spatial Analyst?</li> <li>- Spatial analyst extension and toolbar</li> <li>Geo Processing ( Buffer, Clip, Intersect, Union, Merge Dissolve, Search for Tools)</li> <li>- Data conversion from raster to vector</li> <li>- Analysis parameters setting</li> <li>- Temporary and permanent grids (difference)</li> <li>- Generate distance grids (calculate distance to nearest feature)</li> <li>- Generate density grids (calculate concentration of features)</li> <li>- Reclassify grid data</li> <li>- Add class labels to ranges of grid values</li> <li>- Combine grids using grid calculator</li> <li>- Export grid table to another format</li> <li>- Calculate grid areas</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>	<p>Can existing material be used? If so what/ from where?</p> <p>Yes; from online resources can be downloaded, combined and translated into National languages.</p> <p>If no: what material needs to be developed? And By who?</p>		
<b>Field/ practical training.</b>	Preparations needed, responsible officer(s)		
<b>Prepared by</b>	Prepared by: Zarinkhail, GIS-MIS Adviser and Abdullah Barat, GIS Local Trainer		

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