FORM T-1: TRAINING COURSE SUMMARY SHEET	V1 NORPLAN

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Course title: **Application of GIS to Hydrogeology – An Introduction**	*Course no* *4.10*
	Date prepared: *14/05/2013*

Training purpose	To familiarize hydrogeologists in the practical application of GIS to hydrogeology		
Target group	Education level: (degree/ technical etc): Participants should have familiarity in using computers and operating systems at advanced level. Geographical, geological and hydrogeology knowledge is a plus.	National / Provincial engineers working in the hydrogeological field.	
Course details:	Course language(s)	English and National languages	
	Duration(days): 3	No. participants/ course: 10	Theoretical /practical/training? Theoretical (30%) & practical (70%)
	Planned course location(s): Kabul	Responsible presenter: Professor Zarinkhail Eng. Abdul Munir Mr Andreas de Jong	Hand-outs to be prepared by: Presenters
Summary syllabus	**Day 1: Introduction:** - Introduction to GIS & GIS data management. - Introduction to the use of GIS & MIS in the Government of Afghanistan. - Practical 1: Introduction to GIS. **Day 2: Application of GIS to Hydrogeological Mapping** - Applying GIS to the production of hydrogeological maps. - Practical 2: Make your own groundwater map. **Day 3: Application of GIS to Water Resources Management** - Application of GIS to Integrated water resources data management, mapping and visualization. - Practical 3: HydrogeoAnalyst Software (Afghanistan examples). - Practical 4: Remote sensing in ArcGIS & Google Earth.		
Training equipment required	- Personal computers: one for each participant if possible, or sharing one between two. Participants to provide their own laptops if possible. - ArcGIS 10/10.1student or trial licenses		
Training material	Presentations to be prepared by trainers. Practical courses will use Afghan data.		
Field/ practical training.	Preparations needed, responsible officer(s)		
Prepared by	Prepared by: Zarinkhail, GIS-MIS Adviser & Andreas de Jong.		