

## Course Completion Report ArcGIS Software - Intermediate

Course 4.14



Macintosh HD:Users:sveinstoveland:Dropbox:Hydrogeology Afghanistan:Training\_capacitybuilding:Course 4.19 ArcGIS Software Intermediate:Administration:4.19 ArcGIS Software Intermediate - Course Completion Report.docx

### 1 CONTENT

- Course data
- Course objectives
- Training focus group
- Practical and theoretical work
- Course evaluation: comments from participants
- Recommendations

### 2 COURSE DATA:

Name of course:	ArcGIS Software (Intermediate Level)
Number of participants:	17 trainees from: RuWatSIP/MRRD, ESD/MRRD, NRAP/MRRD, MAIL, MEW and MOM (AGS), DACAAR
Location for training:	RuWatSIP Conference Room, MRRD
Date of implementation	17 to 24 (17, 18, 20, 23, 24) August 2014
Course organiser	Mr. Iqbal
Supporting presenter/Focal point	Prof. Zarinkhail

### 3 COURSE OBJECTIVES

ArcGIS software is one of the most used software in Afghanistan governmental organizations. This was found by contacting and coordination of RuWatSIP, MRRD to other stakeholders and organizations who work in the field of natural resource management and in the field of development of rural areas in the country. A series of GIS trainings is planned and implemented by NORPLAN to build capacity of RuWatSIP, MRRD specifically and the government of Afghanistan in general. Through this series, the ArcGIS Introductory courses conducted last year. This intermediate course on using ArcGIS software is prepared to use GIS with more details.

The main objective of the ArcGIS software intermediate course is to prepare more practical sessions for GIS users. A wide variety of topics related to the technical (hydrogeology) field were address to teach in this course. Three practical projects to be implemented by course participants was included to the course content. Main topics explained and practiced during course were: explain GIS data formats, GIS features including shapefiles, datasets, classes, water body; digitizing, feature editing, feature relationships and selection commands. Similarly, some mini advanced topics were covered: classifications, model builder, annotation, topology, and etc.

The course took longer time considering the planned duration and it had positive results. The reason for this was giving more time to trainees to have hands on computers and do practical projects during class sessions.

## Course Completion Report ArcGIS Software - Intermediate

Course 4.14

**NORPLAN** 

Macintosh HD:Users:sveinstoveland:Dropbox:Hydrogeology Afghanistan:Training\_capacitybuilding:Course 4.19 ArcGIS Software Intermediate:Administration:4.19 ArcGIS Software Intermediate - Course Completion Report.docx

### 4 TRAINING FOCUS GROUP

The ArcGIS software intermediate level course is continuation of what is taught last year in introductory courses for GIS software. The focus group for current training and the ones conducted last year are the same. GIS related people and technical people from natural resource management who work with designing maps, editing maps, preparing plans and reports expected as focus group for this training.

ArcGIS software intermediate course participants were from RuWatSIP, ESD/MRRD, NRAP/MAIL, MAIL, MEW, MOM (AGS), and DACAAR. Out from the invited people, the focus group for this training consisted from GIS technical people, hydrogeologists, survey engineers, geophysics and sanitation experts from above-mentioned organizations and were: 2 people from GIS-MIS Unit of RuWatSIP/MRRD, 4 from RuWatSIP/MRRD, 2 from NRAP/MRRD, 2 from ESD/MRD, 1 from MAIL, 3 from MEW, 2 from MoM/AGS, and 1 from DACAAR.

### 5 PRACTICAL AND THEORETICAL WORK

The course was mostly practical on an intermediate level. In every session, planned lesson and activity was first done and explained by instructor and then let participants do practice in their own computers. Every single question and alternate functionalities explained by trainer. All the planned topics were covered by adding one more day to the training.

Initially, the training was planned for 4 days (3 days lecture and practice and 1 day just sample projects by students). When came to practice, all 4 days covered by lecture and practice and the extended 5<sup>th</sup> day used for practical projects, course evaluation and certificate issue. In general we report training sessions as more than 90% practical which supposed to be like that. Videos recorded during course sessions and practice were distributed to participants during the training and as a package desk to every participant at the end of training.

### 6 COURSE EVALUATION: COMMENTS FROM PARTICIPANTS

The course is evaluated by 3 standard questions and 13 people out of 17 participated in this process by filling 13 different sheets. Feedback was collected and organized in a spreadsheet. The course evaluation document is available on the project website with full comments.

In summary, the questions for evaluation and the participants' response in percentage is as follows:

**Question 1:** Did the training course meet your expectations? 1=Completely, 2=Partially, 3= Not at all,

## Course Completion Report ArcGIS Software - Intermediate

Course 4.14



Macintosh HD:Users:sveinstoveland:Dropbox:Hydrogeology Afghanistan:Training\_capacitybuilding:Course 4.19 ArcGIS Software Intermediate:Administration:4.19 ArcGIS Software Intermediate - Course Completion Report.docx

Response: Completely: 62%, Partially: 38%, Not at all: 0%.

**Question 2:** What do you think about the overall relevancy of training course? Considering the limits on your time and the topics discussed? 1= Too Long, 2= Just right, 3 = Too short

Response: Too Long: 0%, Just right: 85%, Too short: 15%.

**Question 3:** How the relevant was the training workshop to your organization or project's need? 1= Very relevant, 2 = Somewhat relevant, 3 = Not relevant

Response: Very relevant: 92%, Somewhat relevant: 8%, Not relevant: 0%.

## 7 RECOMENDATIONS IF THE COURSE WAS TO BE REPEATED

1. Course duration for this training planned to be longer due practical session; this point was requested many times by trainees. It is proposed to reduce number of courses in one field (maybe one course per month) and instead make course duration longer. Responses to question 2 of training evaluation where 85% of participants say duration of 5 day was perfect proves this.
2. If a method for evaluating trainees added to the course administration to rank students performance during course sessions, this may work better and let students learn things in a competitive manner. Attendance could also be evaluated in this regard.
3. This course was on intermediate level; relevancy of this training found from trainees feedback may let us plan an advanced course of using ArcGIS software. The proposed training may take place shorter period of time (2 to 3 days).
4. Another course covering practical topics using 3D Analyst Extension with participants from this training and/or participants from an earlier course (Spatial Analyst extension) is recommended for a period of 5 days for the future.

Report prepared by: Prof. Zarinkhail, GIS-MIS Adviser and Mr. Iqbal, GIS/RS Trainer, Norplan, August 2014