

## 5.9: Civil 3D training course report

Prepared by  
Prof. Eqrar



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### 1 COURSE DATA:

Name of course:	Civil 3D
Number of participants:	22 trainees from: RuWatSIP, ESD/MRRD, AUSSC, MEW, MOUDA, MAIL and FAO)
Location for training:	RuWatSIP Conference hall, MRRD
Date of implementation	01-08 November 2014
Course Trainer	Mr. Iqbal
Course organiser	NORPLAN project

### 2 COURSE OBJECTIVES

The civil 3D training course is aimed at, design engineers, surveyors, Topographers and others who are practically using CAD software for design, this course will show how to harness the power of AutoCAD Civil 3D to assist in designing and performing a Hydrologic and Hydraulic Tasks Analysis, including techniques for annotating plans, creating tables and preparing for modeling in your favorite hydrology software package.

### 3 TRAINING FOCUS GROUP

The training course is aimed at, design engineers, surveyors, Topographers and others who are practically using CAD software for design.

All participants will receive hands-on training using 5.8 civil 3D. Participants should be familiar with using AutoCad / GIS and have technical knowledge in geology, hydrogeology and general geography.

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### Theoretical and practical work during 5 days of training course

During Civil3D training course four oral presentation presented by course trainer and mostly focused on practical part to find out each one hand on, and familiar to use the Civil 3D tool for their projects.

Following below topics covered during 5 days training course

#### Day 1

- Introduction to Civil 3D Environment :
- Drawing Setting according to require coordinates
- Working with points data, points tables
- Surface modeling include Dem Model / TIN Model
- Grading tools, Profile, 3D feature creation
- Alignment of Canal objects

#### Day 2

- Analyzing Surface Elevations
- Simple Surface Visualization
- Labeling Surface Slopes and Spot Elevation
- Sub catchment Analysis & Curve Number Determination of Drainage Area
- Polylines for Area Delineation

#### Day 3

- Working with Water Body Topologies
- Current Conditions Analysis  
(a) Rational Method Analysis (b) Importing GIS Soil Data
- Proposed Conditions Analysis  
(a) Drainage Areas (b) Detention Design
- Storm Water Interception Design  
(a) Storm Sewer Layout (b) Storm Sewer Analysis and Design

#### Day 4

- Creating a Watershed
- Water Drop Analysis
- Water Sheds Analysis through Surface
- Creating a Watershed Legend
- Creating a Pressure Network from a Water Industry Model

#### Day 5

- Analyzing Surface Water Runoff
- Overview of Bringing in GIS Features
- Depression (Water Flow)
- Printing finalize map

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### List of participants

In total there were 22 participants (17 male & 5 female) from governmental water line ministries and NGOs in the training course. The table below provides the detail of the participants

S.NO	Name	Organization	Title
1	Mohammad Naeem	RuWatsip/MRRD	Technical Advisor
2	Hasiba Saghari	RuWatsip/MRRD	Assistant Design Engineer
3	Freshta Faizi	RuWatsip/MRRD	Assistant Design Engineer
4	Sayed Mujtaba	MEW	Civil Engineer
5	Mohammad Homayon	RuWatsip/MRRD	Design Engineer
6	Abdullah Barakat	ESD/MRRD	Design Consultant
7	Mohammad Ashraf Qaderi	FAO	Senior Draft Man
8	Rohullah Malihzori	RuWatsip/MRRD	Design Engineer
9	Reza Zaki	RuWatsip/MRRD	Design Engineer
10	Fazel Rahim	RuWatsip/MRRD	Design Engineer
11	Hasibullah Amiri	AUWSSC	Design Engineer
12	Noor Ahmad	ESD/MRRD	Engineer
13	Abdul Wahab Khogiani	ESD/MRRD	Engineer
14	Amanuddin	RuWatsip/MRRD	MIS Officer
15	Enayatullah	AUWSSC	Surveyor
16	Mahmood	RuWatsip/MRRD	Senior Design Engineer
17	Najia Safi Kohistani	MEW	Design Engineer
18	Fawzia Matin	MEW	Design Engineer
19	Eng. Qader	RuWatsIP	Technical Advisor
20	Zarmina Salek	MEW	Design Engineer
21	Ezatullah Bader	MAIL	Engineer
22	Waheedullah Amarkhail	MAIL	Engineer

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Photos of theoretical and practical part of 5.9: Civil 3D training course.



On the end of this course the certificates distributed through the leadership of RuWatSIP department and course organizer for whom were attendant at least three days out of five days during training course.