

Water Analysis using field kits

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Course objectives

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**Project in MRRD covering
Capacity Building and Institutional
Cooperation in the field of
Hydrogeology for Faryab Province
Afghanistan**



Why this course?

- *Work with quality control has shown us that results from the labs are not controlled and organised well.*
- *Results may not be trustworthy*
- *This should change, We want that Afghan water testing laboratories should report results which are correct and trustworthy*
- *Practical training how to use field kits*

Target group

- Hydrogeologists working in the field
 - Water engineers
 - Wastewater engineers
 - Public health staff checking water quality
 - Environmentalists
 - Laboratory personnel
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- Generally for staff working in the field using field kits now or in the near future

GETTING CONFIRMATION OF WATER QUALITY



Prepare field work

Where and how to
sample

Sample conservation

Preparation of analytical
kits

Water analysis

Calculating results

Reporting results

Interpretation of re-
sults

**Advise to
client**



What do we want to achieve

- *Create awareness of field water quality testing*
- *Create confidence about how to use basic field kits*
- *Train and create awareness of the importance of correct reporting*
- *Create knowledge of how to apply quality control and how to check quality of own work.*

Does equipment matter?

Expensive laboratory equipment



Should we tell how the tests were made?



Course focus

- *We need to learn how to address quality issues*
- *We need to be clear how precision of methods make a difference and may affect the trustworthiness of the results*
- *We need to be aware about which method is appropriate for what test*
- *We should be able to know how to prepare a professional report so that the user understand the value, precision and trustworthiness of the results*

You should learn:

- *To know why different people want to test water samples in the field and which parameters are most important*
- *Sampling methodology.*
- *How to analyse common parameters using simple analytical kits.*
- *How to calculate concentrations*
- *How to interpret results*
- *Registration of samples*
- *How to prepare results and present reports*

Use the course objectives for end of course evaluation.

- Did you learn?
 - Did you benefit,
 - Can you now confidently do analysis?
 - Can you calculate results and prepare report.
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- This is our aim of assistance..





THANK YOU