

Hydrogeological Survey in Faryab - Afghanistan

TRAINING COURSE SUMMARY SHEET

NORPLAN 

NO NAME:Summary sheet Lab Quality control 5.7 SS_v2.docx

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| Course title: | | <i>Course no: 5.7</i> | |
| Quality Control for Water Laboratories. | | <i>Date drafted: 10 June 2013</i> | |
| Training purpose | <p>To make lab personnel aware that good quality control systems must be applied laboratories if analytical results are to be trustworthy.</p> <p>New of good analytical equipment is not enough to secure quality results, but trained personnel following procedures and using checklist for to make mistakes unlikely is needed. This course aims at demonstrating that there is a need for quality control systems and the course will suggest possible methods to be applied, ring test and outline action plan for implanting QC systems for water labs in Afghanistan</p> | | |
| Target group | Laboratory supervisors, operators and lab assistants (B.Sc of M.Sc or equivalent) | Participants from public and private sector laboratories | |
| Course details: | Course language(s) English / Dari | | |
| | Duration (days); 3 Days | No. participants/ course: 12- 15 | Theoretical / practical in water lab at MRRD |
| | Planned course location(s) Kabul | Responsible presenter Dr. Stoveland / Saboor/ UNICEF | Hand-outs to be prepared by: Presenters |
| Summary syllabus | <p><u>CONTENT</u></p> <p>The course will start with a general lecture of quality control systems in laboratories and brief examples of how accredited laboratories have to operate.</p> <p><u>Practical's</u></p> <p>All participants will carry out some basic water analysis with common field kits for drinking water samples. Results will be compared from tests to see if there is need to apply quality control methods.</p> <p><u>Theory</u></p> <p>Methods to check and control analytical results. Laboratory quality control manual content. Use of procedures, Checklist, documentation requirement, ring tests, spiking samples, interference factors, sample preservation, reagents, internal control systems and external control. Validation of non-standard methods</p> | | |
| Training equipment required | <p>Field kits for water analysis, possibly alkalinity, nitrate, phosphate,</p> <p>Access to laboratory</p> <p>Distilled water, fresh reagents, test samples/ stock solutions.</p> | | |
| Training material | To be circulated. Field kit manuals available, | | |
| Field/practical training. | Working in Laboratory, Protective clothing and gloves to be used. | | |
| Time/Location | <p>18th June 2013 , 3 days duration,</p> <p>Laboratory in MRRD, RuWatSIP and theoretical training in RuWatSIP conference room, MRRD</p> | | |
| Prepared by | Prepared by: Dr. Stoveland/ | | |

Follow up course(s) could be planned or needed