

Three-days training on on-farm optimized irrigation practices:

Location: Jordan Valley

Trainers: MREA engineers

Activity	Time schedule	Location	Program	
DAY1: Design using MREA software (diagnosis and optimization of existing networks:vegetable+citrus farms)	8:30 to 09:30 AM	Training room (Middle Jordan Valley)	Welcoming, introduction (general presentation of agriculture in the Jordan Valley and discussion on the problems faced by the farmers), presentation of the objective of the three-days training program (learn how to solve the problems related to irrigation) and training program description	
	09:30 to 10:30 AM	Training room (Middle Jordan Valley)	Training on the basis of network designing and discussion on the procedure to follow for making a good design network (group discussion)	
	10:30 AM to 12:30 PM	Citrus farm + vegetable farm (open field/Greenhouses) (Middle Jordan Valley, Pumping Station 55)	Measurements in the field (group work), guided by an engineer from MREA. Analysis of existing networks (open tube for citrus + GR for vegetable in greenhouses). Visit of a citrus farm using virojets, a farm using T Tape and a farm using GR in open field	
	12:30 to 01:00 PM	Field	Lunch break	
	01:00 to 3:30 PM	Training room (Middle Jordan Valley)	Discussion about Open Tube and virojets (presentation). Training on the MREA design software. Analysing field measurements on computer: diagnosis and optimization of the existing networks (from Open tube to virojets for citrus/GR in greenhouses/GR in open field)	
DAY2: Designing new on-farm pressurized networks + demonstrations of good irrigation practices	8:30 to 08:45 AM	Training room (Middle Jordan Valley)	Welcoming, introduction, presentation of the program of the day.	
	08:45 to 12:00AM	Citrus farms (virojet + open tube) + vegetable farm (GR + T Tape) (Middle Jordan Valley)	Demonstrations of optimized irrigation practices (group work): flow measurements, calculation of flow irrigation uniformities, use of removal pressure gages, flushing requirements, discussion with the farmer concerned. Visit of a farm using collecting pipe. Discussion on differences between the different systems. Measurement of a pump curve	
	12:00 to 01:00 AM	Zena Restaurant	Lunch break	
	01:00 to 03:00 PM	Training room (Middle Jordan Valley)	Group work for designing new networks (2 persons virojets for citrus, 2 persons GR for vegetables, 2 persons GR for open field)+ presentation of the groups and comments	
DAY 3: Filtration and Tensiometric irrigation scheduling	8:30 to 08:45 AM	Training room (Middle Jordan Valley)	Welcoming, introduction, presentation of the program of the day and distribution of scientific articles	
	08:45 to 09:45 AM	Training room (Middle Jordan Valley)	Theory on filtration and fertigation techniques	
	09:45 to 10:45 AM	Training room (Middle Jordan Valley)	Training on the basis of tensiometric irrigation scheduling	
	11:00 to 11:45 PM	Field	Lunch break	
	12:00 to 01:15 PM	Vegetables farm (Middle Jordan Valley)	Filtration/fertigation devices	Demonstrations on vertical optimized sand filter, screen filter and disk filters (installation, working process, cleaning process and frequency) + litterature review + discussion with the farmer concerned. Calibration of the backwash of the sand filter (prosonic + traditional method). Demonstrations of several fertigation devices: dosatron, fertigation tank, traditional method. Demonstrations of Pilazo (device to measure Nitrogen in plants)
	01:15 to 03:00 PM	Vegetables farm (Middle Jordan Valley)	Tensiometric irrigation scheduling	Installation of tensiometers (soil profile, choice of the location and depth, installation).