



200-290 minutes total

Lesson Plan 20 DWQT Field Trip

Overview of Activities

1. Introduction
2. Water Sampling Technique Practice (Optional)
3. Chemical and Turbidity Testing Practice (Optional)
4. Sanitary Inspection Practice (Optional)
5. Review

Learning Outcomes

At the end of this session, participants will be able to:

1. Apply new water sample collection skills in a field setting (optional)
2. Apply chemical and turbidity testing skills in a field setting (optional)
3. Apply sanitary inspection skills in a field setting (optional)

Materials & Preparation

- ☐ Organize a suitable field location and transportation (coordinate with host)
- ☐ Obtain permission for the workshop participants to practise skills in the community or project site
- ☐ Arrange for a local liaison to accompany the group on site to facilitate interaction with the community
- ☐ Ask the liaison to identify potential water sources (taps, boreholes, wells, reservoirs etc.) for testing
- ☐ Safety equipment: e.g., first-aid kit, small fire extinguisher, gloves, lab coats
- ☐ Activity: Water Sampling Technique Practice (Optional)
- ☐ Handout: Field Sampling Checklist, see end of lesson plan 6 – Water Sampling Procedures
- ☐ Prepare: Items listed on the Field Sampling Checklist
- ☐ Activity: Chemical and Turbidity Testing Practice (Optional)
- ☐ Prepare: Items for chemical and turbidity testing, see lesson plans 12 and 15, Acceptability Aspects Testing Methods and Chemical Testing Practice
- ☐ Handout: Sanitary Inspection Forms, see lesson plan 5, Sanitary Inspections, (Print one per small group)

Recommended Reading

- ☐ Technical Briefs: Water Sampling Procedures and Sanitary Inspections

10 minutes

Introduction



1. Explain the logistics of the field trip:
 - Location
 - Distance and expected travel time
 - Expected time of return
 - Food and beverage considerations
2. Explain the trip objective and expectations, e.g., practise skills in a field setting, work in small groups etc.
3. Explain the ground rules for the field trip determined in consultation with the host organization, e.g.:
 - Use respectful behaviour when visiting people's homes or communities
 - Participation
 - Stay with the group
4. Explain safety procedures.
 - What to do in an emergency (e.g., contact phone numbers)
 - Where to find the first-aid kit if needed
 - Identify potential safety hazards
5. Have volunteers prepare the field-sampling kit using the field-sampling checklist.
6. Present the learning outcomes or an overview of the lesson.

Trainer Tips

Discuss the introduction with participants well in advance of the field trip to allow time to prepare.

Explain relevant field trip activities prior to arrival at the site so everyone knows what to do. Be organized!

60-90 minutes

Water Sampling Technique Practice (Optional)



1. Divide participants into groups of three or four people.
2. Send groups to different water sources to practise sampling.
3. Instruct groups to work together to take water samples using the appropriate water sampling technique.
4. Encourage participants to help each other and allow everyone the chance to participate.
5. Remind participants to use observation and to take notes.
6. Allow 30-60 minutes for groups to practise sampling. Provide a time to regroup.

Trainer Tips

The facilitator should move around and provide guidance and supervision to ensure the small groups are using appropriate techniques.

7. Debrief the activity (onsite or at the workshop venue). Invite participants to share their reflections. Ask open-ended questions about what they experienced, observed or practised. Ask: “What went right? What went wrong? What can make it better next time?”

60-90 minutes

Chemical and Turbidity Testing Practice (Optional)

Note: use this activity if only one water source is available for testing.

1. Divide participants into groups of three or four people.
2. Assign one test to each group, e.g. chlorine, iron, manganese, fluoride, pH etc. using colour comparators, pH meter, turbidity tube or meter.
3. Instruct groups to work together to conduct the appropriate chemical or turbidity tests.
4. Encourage participants to help each other and allow everyone the chance to participate.
5. Remind participants to use observation and to take notes. *Trainer tip: observations can indicate the presence of some chemicals such as iron discolouration around a well apron.*
6. Allow 30-60 minutes for groups to practise chemical and turbidity testing. Provide a time to regroup. *Trainer tip: if groups finish quickly, they can exchange equipment with other groups to test different chemical parameters.*
7. Debrief the activity (onsite or at the workshop venue). Invite participants to share their reflections. Ask open-ended questions about what they experienced, observed or practised. Ask: “What went right? What went wrong? What can make it better next time?”

60-90 minutes

Sanitary Inspection Practice (Optional)



Note: use this activity if water sources are not available for sampling or testing.

1. Divide participants into groups of three or four people.
2. Hand out appropriate Sanitary Inspection Forms to each group.
3. Instruct groups to work together to conduct a sanitary inspection and to determine the risk score for the sample site.
4. Encourage participants to help each other and allow everyone the chance to participate.
5. Allow 30-60 minutes for groups to practise sanitary inspections. Provide a time to regroup.
6. Debrief the activity (onsite or at the workshop venue). Invite participants to share their reflections. Ask open-ended questions about what they experienced, observed or practised. Ask: “What went right? What went wrong? What can make it better next time?”

10 minutes



Review

1. Play the Plus/Change game (onsite or at the workshop venue).
2. Ask each participant to say one positive (plus) thing about the day, it could be something new they learned or something they enjoyed. In addition, one thing they would change.
3. This can also be done on paper. Give each participant a small piece of paper; on one side they write something positive, on the other side something that could be changed in future.

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