
Citrus Orchard Foreman Occupational Learning

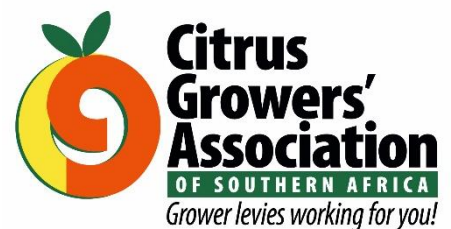
Progressive Activities Assessment Guide

B4: Irrigation Installation

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Chapter 1

Activity P1

Complete this activity to test your knowledge of the entire chapter:

1. What are the main types of irrigation systems?

Flood irrigation, mobile irrigation systems, and static irrigation systems.

2. How does water move in flood irrigation systems?

Through furrows in the ground.

3. What characterises mobile irrigation systems?

They irrigate while the system is moving.

4. What characterises static irrigation systems?

They irrigate while the system is standing still.

5. What is irrigation efficiency?

The percentage of the water displaced by the irrigation system that is utilised by the crop.

6. What are the three types of water quality factors?

Physical, chemical, and biological.

7. How can physical water quality be improved?

Filtration and sedimentation.

8. What is chlorine used for in irrigation?

To kill organisms in the water.

9. What are the most commonly used irrigation systems for citrus production?

Permanent micro-jet and drip irrigation systems.

10. What is the ideal soil for citrus production?

Soil with clay content of between 7% and 30%.

Chapter 2

Activity P2

Complete this activity to test your knowledge of the entire chapter:

1. What is added together to calculate the combined cost of an irrigation system?

Capital, labour, maintenance, energy costs, and the cost of failure.

2. What is the first step in reading an installation plan?

To orientate the plan according to landmarks.

3. What do the notations next to pipes indicate?

Their size, class and length.

4. What is a bill of quantities?

A list of the equipment that is required to install the irrigation system.

5. How are blocks laid out?

Block corners are marked first, then rows, then tree positions.

6. What tool is used to ensure straight rows?

A dumpy level.

7. What tool is used to determine the positions of trees in each row?

A measuring tape.

8. What are conveyance system trenches?

Trenches that pipelines are placed in.

9. When is testing performed during installation?

Components of the irrigation system are tested while being installed, and the entire system is tested once the installation has been completed.