



Garden and Farm Technology

ZTH-AGR-001 | Digital Starters | Core | Energy and agriculture

8 weeks

duration

24 hours

learning time

2 x 1.5h

live sessions per week

US\$70.00

fee per learner

In this course you will grow a small crop with measurement.

Delivery

Offline-ready: can run without internet

Suitable for

Early years 5-7, Primary-age 8-13, Secondary-age 14-18, Teachers, NGOs and community hubs

What you will be able to do

- Grow a small crop with measurement
- build a simple soil-moisture or rain monitor
- explain climate and water use
- record yields

Syllabus

1. Wk 1 Soil and seeds
2. Wk 2 Water and plants
3. Wk 3 Weather tools
4. Wk 4 Soil moisture sensor with Micro:bit
5. Wk 5 Watering rules and mulching
6. Wk 6 Pest and plant care
7. Wk 7 Record and compare
8. Wk 8 Farm day and market

Hands-on practical work

- School garden bed with measured watering
- moisture sensor display
- compost heap
- sell produce at a school market with record keeping

Resources and equipment

Garden tools, seeds, containers, soil moisture sensors, Micro:bit kits, rain gauge, thermometers

Off-grid and solar option

Sensors on battery power; solar light charging; paper records





Assessment

Garden record, working sensor and market record

Career direction

Farmer, agronomist, agri-entrepreneur, agricultural technician, agribusiness manager

Climate-smart farming and farm technology are priorities for food security and investment

Next steps

From TT7; leads to EX9 Smart Agri-Tech

Enrol

Skills first, certificate second: you finish with something you can do and a QR-verifiable certificate to prove it.

Enrol online at <https://zambesi.ac.zw/course.php?slug=garden-and-farm-technology> or contact
info@zambesi.ac.zw / +263 7X XXX XXXX.

