



**Candlelight Farm  
Mundaring**  
Ross 0439 971 213  
rossmars@waterinstallations.com  
www.cfpermaculture.com.au



**Australian Farmland  
Conservancy,  
Quairading**  
Don 0429 455 210  
admin@australianfarmlandconservancy.com  
www.australianfarmlandconservancy.com.au

# Permaculture Earthworks Course

For the first time in WA, join Ross Mars and Don Woodcock for three days of teaching and learning about water harvesting strategies for rural properties.

## April 8 – 10, 2017 (Saturday to Monday)

**Held at Westdale - northeast of Brookton (about 1 hr from Perth metro)**

Course covers:

### Day One

- Surveying techniques – using dumpy and laser levels, abney level and more to survey and peg out swales, drains, dams.
- Catchment assessment, measurements and calculations on possible water capture for both paddock and house.
- Basics of keyline design, types of dams, swales and drains.
- Introduction to the types of machinery used in rural applications – their limitations and capabilities.
- Reading maps – for estimations of slope, dam locations, water movement, location of valleys and ridges.
- Dam construction.
- Soil testing – dispersion test for clay, pH, percentage clay and fines, soil structure.
- Water testing – pH, salinity, water quality.

### Day Two

- Machinery will be site to: Construct dams, clean drains and make swales.
- Building of silt trap for main dam, earthworks to repair existing erosion problem at dam entry.
- Rebuild spillway.

(Participants will be mainly observing these tasks while helping with machinery supervision and operation).

### Day Three

- Second dam build.
- Building of drains into dams.
- Observation of construction of large steel-liner rainwater tank and assist with pipework from house.

**Cost \$200** (includes meals). Bring your swag or mattress and sleeping bag for accommodation in rooms of house.

You can participate in only the weekend, but we will assume everyone is there for all three days.

To participate: email Ross or Don with your details. We will provide you with our bank details to make a deposit to secure your place in the course, and directions to the farm.