

HOW TO MAKE A LINE LEVEL

A line level is a tool which can be used to mark out contours and to measure slope. It is simple to make and use, and when used correctly it is very accurate. Three people are needed to use a line level.

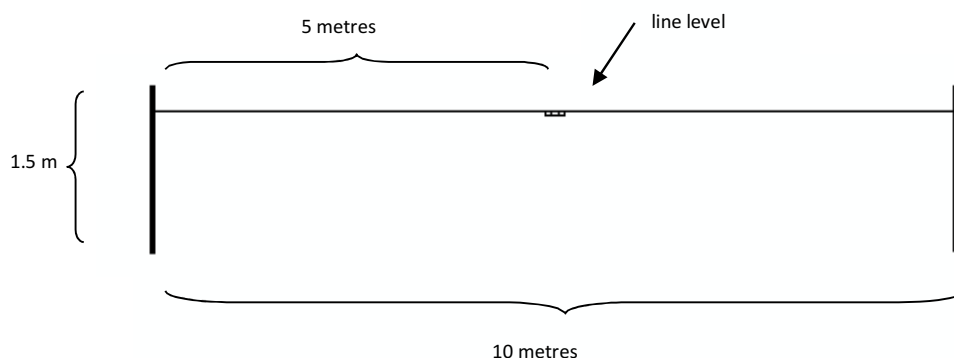
MATERIALS

- 2 x poles of the same height (1.5 m or 2 m)
- 11 metres of string or fishing line
- a knife
- a line level

TO MAKE THE LINE-LEVEL:

1. Cut a notch in each pole at exactly the same height (e.g. 1.4 m above ground level).
2. Tie the string to the poles to connect them. Make sure that the distance between the two poles is exactly 10 meters.
3. Tie or hang the spirit level from the string exactly halfway between the two poles.

LINE-LEVEL DIMENSIONS:



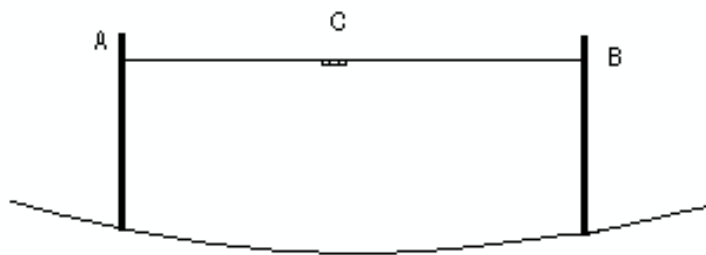
HOW TO MARK CONTOURS WITH A LINE LEVEL

Three people are needed to mark contours with a line level: Person A, Person B and Person C.

TO MARK OUT CONTOUR LINES:

MATERIALS

- line level
- sticks or rocks
- hammer (if using sticks and the ground is hard)



(Not to scale)

- 1, Start at the edge of the field. Person A must put his/her pole on the ground, hold it straight up and stand still, while Person B must move up or down the slope until the line level gives a level reading. Person C must stand between the poles and read the line level.
2. When the line level gives a level reading, points A and B must be marked with pegs.
3. Person A must then move to point B, and person B must move further down the field. Steps 1 and 2 should then be repeated.

Note: It is important that both poles are held vertically (straight up), and that neither pole is placed in a hole or on top of a minor high spot like a rock or clump of soil.



