

**Aim** : Measurement of distance by Ranging and Chaining

**Equipment** : Chain, Arrows, Tapes, Ranging Rods, Offset Rods, Cross staff or optical square, Plumb line, wooden mallet, pegs.

**Figure**:



**Theory** : By the various methods of determining distance the most accurate and common method is the method of measuring distance with a chain or tape is called Chaining. For work of ordinary precision a chain is used, but where great accuracy is required a steel tape is invariably used.

The term chaining was originally applied to measure distance with a chain. The term chaining is used to denote measuring distance with either chain or tape. In the process of chaining, the survey party consists of a leader (the surveyor at the forward end of the chain) a follower (the surveyor at the rear end of the chain) and an assistant to establish intermediate points.

The accuracy to which measurement can be made with chain and tape varies with the methods used and precautions exercised. The precision of chaining, for ordinary work, ranges from 1/1000 to 1/30,000 and precise measurement such as Baseline may be of the order of 1/100,000.

**Survey 2**

# Surveying Lab Manual Chaining

**Earlham College**



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