

Module 2 LINEAR MEASUREMENTS

Learning Outcomes

On the completion of this module you should be able to:

- Describe the principle of ranging and measuring over a hill and through depression
- Understand and describe measuring around a pond, across a river or busy road
- Describe measuring when a building obstruct vision
- Understand survey methods

2.5 Ranging and measuring over a hill

Ranging: Method of locating or establishing intermediate points on a straight line between two fixed point or two survey stations is called as ranging.

Types of ranging

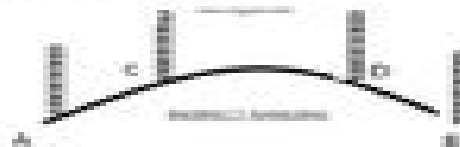
There are two methods of ranging:

- Direct Method (Two ends of survey line or stations are inter-visible)
- Indirect Method (Two ends of survey line or stations are not inter-visible)

2.5.1 DIRECT METHOD: This method is used when two ends of survey stations or survey lines are inter-visible.

2.5.2 INDIRECT OR RECIPROCAL RANGING: This method is used when two ends of survey stations or survey line are not inter-visible.

- **Ranging and measuring over a hill**



Let A and B be the two stations which are not inter-visible. So to proceed in straight line between A and B process of indirect ranging is applied. Two intermediate points C and D are located in such a way that person standing with ranging rod at D can see C and A whereas person with ranging rod at C can see D and B.

Now person at D will guide the person at C to come in line with D and A on a new position C1. Now the person at C1 will guide the person at D to come to a new position D1 such that C1, D1 and B are on same line. Ranging rod is fixed at C1 & D1 and chaining is continued along the hill.

Instrumentation N5 Study Guide

Katrin Zwirgmaier



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