Practical Project 1

Instrument Level checking (2 Peg test)

Candidates Name:			
TAFE ID Number:			
Date of Assessment:			
Team Member's Name:_			
Setup and test the Instrument (Inst. No)		
Recording from centre spot	0.0 m : 1	40.0 to 50 m 2	Difference
Recording from 5 or 45 m sp	oot : 1	2	
(For each field exercise a level check is reclevelling.)	quired. This check m	nust be carried out	each time before you do

PROJECT 1

This is a **straight** level run. Datum for Station A is 10.000 meter and for the reverse run take the RL reading from Station 9 as Datum. To clarify: one student does the level run from Station A (i.e. first RL on the R&F sheet) to Station 9 (last reading) and the other student going back from Station 9 (i.e. first RL on R&F sheet) to Station A (last reading)

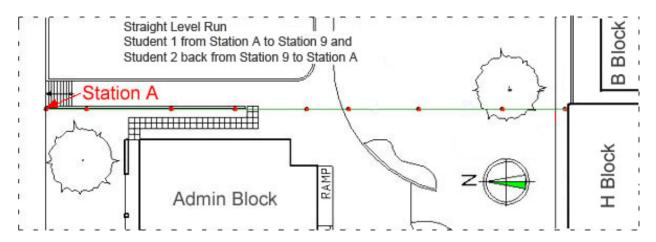
Think about the position of the instrument. You need to shift the level once.

- 1) Record the levels of each of the BLUE stations 1 to 9 (station 9 is on the Wall). Take Station 1 as datum 10.000 and convert staff readings to Reduced Levels, using the rise and fall method. One student must submit a Rise&Fall sheet for levels from Station A to 9 (the Station at the wall end) and the other student must submit a Rise&Fall sheet for return levels from Station 9 to A. The RL for Station 9 that student 1 has calculated must be used for student 2 as Datum to facilitate his/her calculation of the RL's. Make sure the RL of Station A from the return run is 10.000. A tolerance of ± 0.005 m (± 5 mm) is acceptable.
- 3) Measure the horizontal distance of all stations in baseline dimensions (linear distance of all stations relative to a single base reference (Station A to 9 and Station 9 to A). Slope measurements must be converted to horizontal distances; show all calculations, which must be logical set out and easy to check.
- **4)** Draw profiles from Station A to Station 9 using a horizontal scale of 1:500 and a vertical scale of 1:50.

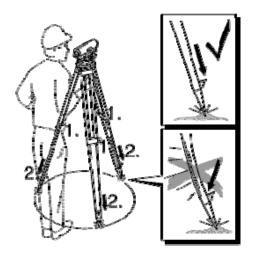
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Your report must cover all of the above four points.

Project 2 Location Plan



Setup the instrument

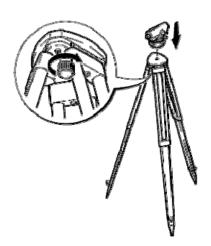


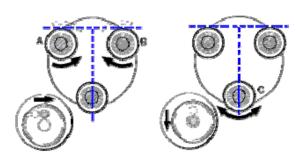
and tighten screws. 2. In order to guarantee a firm foothold sufficiently press

1. Loosen screws of tripod legs, pull out to required length

- the tripod legs into the ground. When pressing the legs into the ground note that the force must be applied along the legs.
- Check all screws and bolts for correct fit.

When setting up the tripod pay attention to a horizontal position of the tripod plate. Minor inclinations of the tripod can be corrected with the footscrews of the tribrach.





- 1. Place level onto tripod head. Tighten central fixing screw of tripod.
- Turn footscrews A and B simultaneously in opposite directions until bubble is in the centre (on the imaginary "T").

 3. Turn the instrument 90° and then turn the foot
- screw C until bubble is centred.

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Rise & Fall Template

Station	Back- sight	Inter- mediate	Fore- sight	Rise	Fall	Reduced level	Distance	Remarks
A								
В								
c								
D								
E								
F								
G								
Н								
J								
К								
L								
M								
N								
p								
Q								
R								
S								
Т								
u								
V								
W								
X								
y								
Z								

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