Central Institute of Technology

Building Studies

Campus East Perth

Project No: 2

Task Notes

Candidates Name: _____

TAFE ID Number: _____

Date of Assessment: _____

Instrument Level checking (2 Peg test)

The 2 peg test is compulsory and must be recorded on the Project Field Notes

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Instruction for Project Task

1) Setup and record the levels of each of the grid points, marked in the area shown on the "Location Plan". Take Station A1 as datum 10.000 and convert staff readings to Reduced Levels, using the rise and fall method.

2) Peg out 42 Grid Points as shown in the Project Plan

3) Record the spot levels onto the attached R & F sheet.

4) Draw contours lines at 0.1 m intervals on the attached Contour Line Plan.

5) Calculate the volume of cut/fill required to the datum at Station A (RL=10.000 m)

Use two (2) methods of volume calculations,

1) Rectangular prisms method using the Volume Calculation Template

2) Grid level method (use Excel-template form the website) provide the printed sample

Compare the results. .All calculations must be clearly and logical set out.

6) Submit all documents on the due date (including the practical project notes with the attachments.

Remember to make a copy of the field notes for all group members to enable students to write the personal report. Your report must be written on page 5 & 6 (refer to Section C.for details).

Project Location Plan

Submission date: ► refer to your Learning Plan or as indicated by your lecturer.

Project Submission Requirements

Refer to the project task notes and field notes for the scope of the practical project.
Project No 2 must include the following:

1. Assignment Attachment form. (do not forget to sign the declaration)
2. Project submission must include all of the six (6) pages of Project 2 instructions.
   The following is required:
   a) Task notes & Field notes completed
   b) Rise & Fall sheet completed
   c) Scaled Contour Line Plan (use separate sheet)
   d) Record volume summary for each blocks on page 6
   e) Detailed Volume Calculation (rectangular prism) (on separate sheet)
   f) Grid level volume on MS-Excel-Template (provided)
3. If needed attach additional Drawings/sketches or notes

Project 2 - Rise & Fall Sheet

Station		Back-sight	Inter-sight	Fore-sight	Rise	Fall	Reduced level	Remarks
A	1							
	2							
	3							
	4							
	5							
	6							
	7							
B	1							
	2							
	3							
	4							
	5							
	6							
	7							
C	1							
	2							
	3							
	4							
	5							
	6							
	7							
D	1							
	2							
	3							
	4							
	5							
	6							
	7							
E	1							
	2							
	3							
	4							
	5							
	6							
	7							
F	1							
	2							
	3							
	4							
	5							
	6							
	7							

Organise the group in advance and make sure all group members turn up for the

Group	mobil	First Name	Surname	proposed Date
1				
2				
3				
4				
5				
6				
7				
8				

Field Notes

Project considerations

Before you start any project work ensure you are familiar with the project task. Are you ready to do the project and is the equipment organized?

You should use a clip-board to record your Project notes.

A) Record the following field notes:

Date: _____ Start time: _____ Finish time: _____

Weather conditions, _____

_____

Group members, _____

_____

Instruments (model & serial number), _____

B Two Peg Test

Setup and test the Instrument (Inst. No._____)

	0.0 m	40.0 m	Difference
Recording from centre spot:	1 _____	2 _____	_____
Recording from 5 or 45 m spot:	1 _____	2_____	

C Project Report

Refer to the project notes for the scope of the practical projects. Projects need to be submitted on due date, if not stated otherwise. Each student must **individually** submit a report. Write the

reports as soon as possible after the field exercise Individual group members will also be orally assessed to verify that the competencies have been achieved.

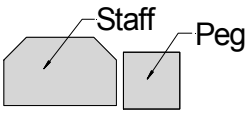
You are required to:

1) Setup the grid points, marked in the area shown on the "Location Plan".

2) Peg out a grid (five (5) equal spaces and seven (7) spaces of 4 x 4 metre total of 42 grid points, see sketch below).

3) In the field sketch show the level position and all staff readings at grid points. Include dimensions between the grid lines.

4) Record the levels of each grid point. Take Station 1 as datum 10.000.
Locate the staff next to the peg as shown in the sketch



5) Field records are an important assessment component. Your records must be written in neat hand writing. Use a pencil, have an eraser at hand and have your clipboard ready to write the field notes.)

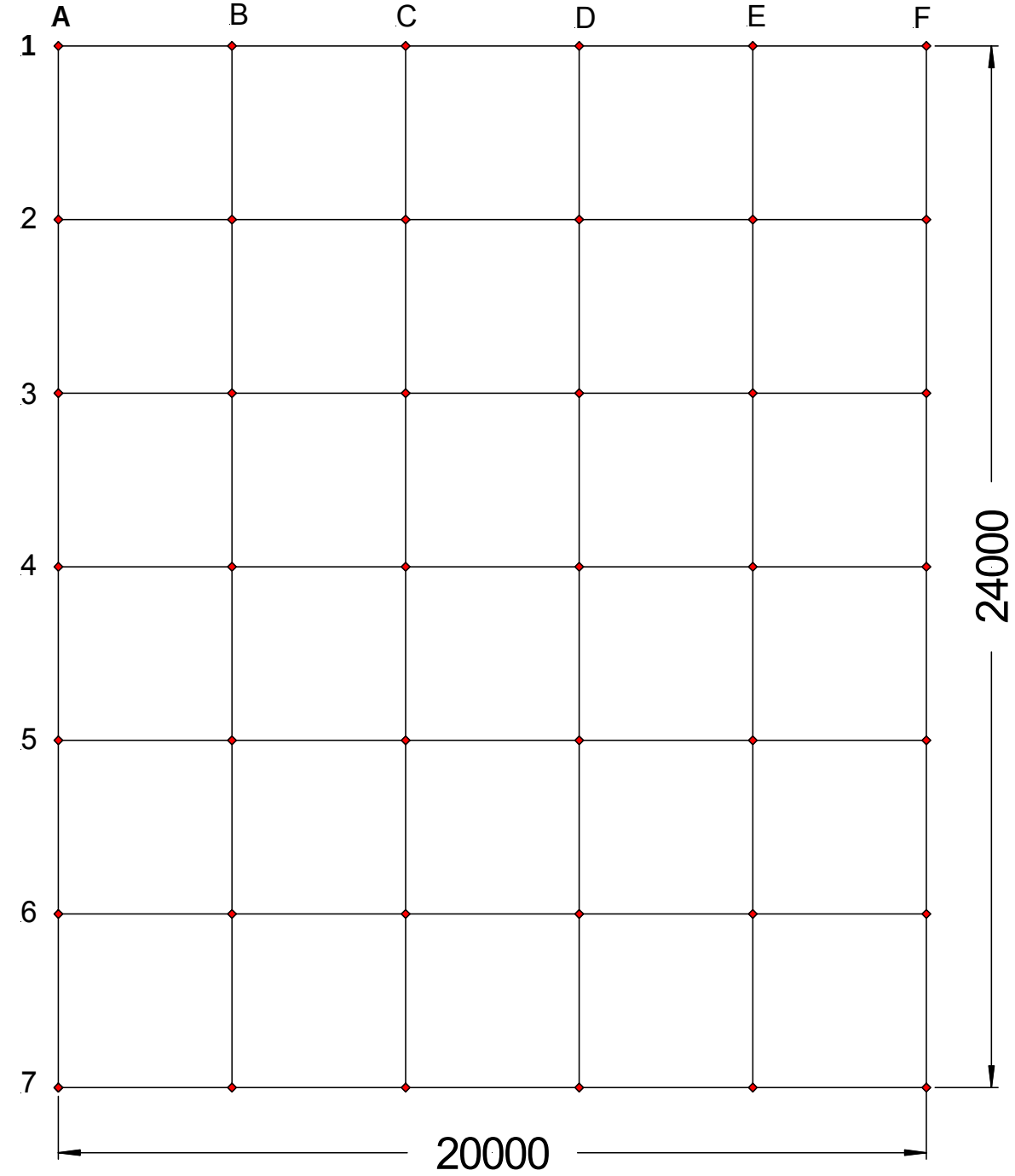
6) The field notes must, apart from above, include the following:

- How the activities are distributed between the team members?
- Every team member must do some staff readings (list the grid points (A1, B3, C4 etc.)
- Activities that team members will do need properly be recorded in the field notes (placing pegs. measuring grid distances, staff reading, staff holding, keeping records etc.)

Report: _____

In then sketch below record the quantity of volume in each Block using the following formula:

$$\text{Length} \times \text{Width} \times \frac{RL_1 + RL_2 + RL_3 + RL_4}{4}$$



A detailed volume calculation for each block must be shown on a separate page