

Solutions Manual
for
Construction Surveying and Layout
Third Edition

Chapter 1

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Chapter 1 - Construction Surveying

QUESTIONS AND PROBLEMS

2. **Why do you think a safety belt or harness is needed in construction layout?**

It is needed whenever working in high places. Either above a deep excavation, on structural steel, or on bridges.

4. **Prepare a bar chart of your daily schedule for a busy day of the week. Determine if it keeps you from forgetting activities.**

This can be broken into hour or smaller time slots to show detailed activities that re-occur. Any size is acceptable.

6. **Describe the relationship between the field engineer and the superintendent.**

The field engineer works for the superintendent. Depending on the company structure, the field engineer helps the superintendent in any way possible.

If the field engineer is from an outside company, that individual still is responsible to whatever the superintendent needs done.

8. **Describe the role of the field engineer in quality control.**

Field Engineers are the eyes of the superintendent on the jobsite. The Field Engineer is in the midst of the work and can see the materials being placed and the craftsmanship that is being performed. The field engineer can see when something is wrong and may be able to get it corrected before it becomes permanent.

10. **Contact a Registered Surveyor in your area and find out what it takes to become licensed.**

Most registered surveyors would be glad to discuss their profession. If a local surveyor cannot be contacted, find out the name of the state surveying society. Visit the website of the American Congress on Surveying and Mapping for the address of every state society. <http://www.acsm.net/>.

