

■ **Mandatory Graded Assignment**



Directions: Be sure to make a copy of your answer before submitting it to Ashworth College for grading. Unless otherwise stated, answer in complete sentences, and be sure to use correct English spelling and grammar. Sources must be cited in APA format. Your response should be a minimum of one (1) single spaced page to a maximum of two (2) pages in length.

To increase your knowledge of the field, prepare a short essay describing GPS use and function when real time layout is used in earth moving construction activities. Specifically, examine site development or highway construction when GPS is used during earth moving activities. Discuss the benefits of automatic positioning of heavy equipment such as scrapers, graders, or excavators as it is used to move earth to reach final line and grade. In addition, describe the responsibility of the construction surveyor on an earth moving operation when GPS machine guidance is being used on site during site development or highway construction

For reference, review pages 355 through 361 of your textbook. Also, visit the following Web site.

www.topconpositioning.com/home.html

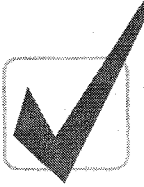
When you get to the website, read through the various subheadings. Make sure you click on the "Equipment Automation" subheading, and then click on the 3di-GPS demonstration clip. This clip will clearly demonstrate the power of machine guidance as it relates to line and grade. You can include any relevant information on the website in your two page essay.

This assignment must be a neat, professional presentation on this subject. Proper punctuation, spelling, and usage of grammar are imperative.

IMPORTANT: This project is required. You must complete this project. Send this project to the school for grading. Complete and attach a *Submission and Evaluation Form* provided with this Learning Guide. If you fail to attach the form to your assignment, your work will not be accepted.

Lesson 6

■ ***Mandatory Graded Assignment***



Directions: Be sure to make a copy of your answer before submitting it to Ashworth College for grading. Unless otherwise stated, answer in complete sentences, and be sure to use correct English spelling and grammar. Sources must be cited in APA format. Your response should be a minimum of one (1) single spaced page to a maximum of two (2) pages in length.

Explain the process for establishing a centerline for a roadway for an existing road. Include a description of the types of property markers used as well as any problems a surveyor may encounter in this process in your explanation. In addition, discuss the minimum alignment required to establish the centerline.

IMPORTANT: This project is required. You must complete this project. Send this project to the school for grading. Complete and attach a *Submission and Evaluation Form* provided with this Learning Guide. If you fail to attach the form to your assignment, your work will not be accepted.