



Course Instructions

NOTE: The following pages contain a preview of the final exam. This final exam is identical to the final exam that you will take online after you purchase the course.

After you purchase the course online, you will be taken to a receipt page online which will have the following link: [Click Here to Take Online Exam](#). You will then click on this link to take the final exam.

3 Easy Steps to Complete the Course:

- 1.) Read the Course PDF – download from our website
- 2.) Purchase the Course Online & Take the Final Exam – see note above
- 3.) Print Out Your Certificate

Acoustic Multibeam Survey Systems – Final Exam

1. **The US Navy developed multibeam swath survey technology in the early 1800s for deep-water bathymetric mapping.**
 - a. True
 - b. False

2. **Figure 11-3 depicts sensor locations relative to a vessel's center of motion.**
 - a. True
 - b. False

3. **Regarding USACE Multibeam Policies, Procedures, and Applications (11-4), multibeam systems are primarily deployed on _____ where full-bottom coverage is required:**
 - a. shallow-draft navigation projects
 - b. reservoirs.
 - c. deep-draft navigation projects.
 - d. sanitary canals.

4. **Considering Initial Installation Alignment and Static Offset Measurements (11-6), these measurements are made upon _____ or upon replacement, removal, and reinstallation of a sensor:**
 - a. beginning the survey.
 - b. initial installation.
 - c. the beginning of the quarter.
 - d. a directive.

5. **With respect to Vessel Squat/Settlement and Draft Variations (11-7), the combined squat and settlement of the vessel should be measured at several _____ and a look-up table produced for correcting the transducer draft:**
 - a. speeds.
 - b. locations.
 - c. outdoor temperatures.
 - d. orientations.

6. **Figure 11-11 depicts a planimeter.**
 - a. True
 - b. False

7. **Regarding Beam Width Restrictions on Multibeam Systems (11-11), the coverage of multibeam systems is a function of swath width and water _____:**
- a. opacity.
 - b. cloudiness.
 - c. contamination.
 - d. depth.
8. **Regarding Depth Selection Options (11-14), once raw data points are collected within their given positional cell, the multiple depths within each cell may be thinned to a single representative depth for that cell.**
- a. True
 - b. False
9. **According to Section 11-15, Plotting Representative Depths in Plan, when individual depths are plotted on a traditional plan drawing at some fixed scale (e.g., 1 in = 200 ft), the method by which a particular depth is selected from a dense multibeam dataset is _____ process:**
- a. a difficult.
 - b. a straight-forward.
 - c. a simple.
 - d. an easy.
10. **Table 11-2 summarizes criteria for conducting multibeam surveys.**
- a. True
 - b. False