



TRITON-PDH.COM
6757 W. Charleston Boulevard, Suite B
Las Vegas, NV 89146
Admin@triton-pdh.com

Examination for Design of Sheet Pile Walls

CHAPTER 1 - INTRODUCTION

1. Which of the following is not listed as a type of sheet pile wall?
 - a) Anchored wall
 - b) Dredge wall
 - c) Cantilever wall
 - d) Floodwall

2. Which type of pressure tends to allow the soil to expand horizontally?
 - a) Active pressure
 - b) At-rest pressure
 - c) Deformation pressure
 - d) Passive pressure

CHAPTER 2 – GENERAL CONSIDERATIONS

3. Who is responsible for operating and maintaining the completed project?
 - a) Project engineers
 - b) Government coordinators
 - c) Local interests
 - d) Construction contractors

4. Procurement of new rights-of-way should begin when?
 - a) In the construction phase
 - b) In the feasibility stage
 - c) In the design stage
 - d) In the planning phase

5. Which of the following sheet pile wall materials should only be used for temporary structures?
 - a) Aluminum
 - b) Wood
 - c) Light-gauge steel
 - d) All of the above

6. A Z-type light-gauge aluminum section is available in what depth?
- a) 12 inches
 - b) 4 inches
 - c) 20 inches
 - d) 6 inches

CHAPTER 3 – GEOTECHNICAL INVESTIGATION

7. How far should test bores extend below the ground surface?
- a) A minimum of 5 times the exposed wall height
 - b) A minimum of 3 times the exposed wall height
 - c) A minimum of 4 times the exposed wall height
 - d) A minimum of 2 times the exposed wall height
8. Which of the following is not listed as a sufficiently pervious coarse-grain (cohesionless) material?
- a) Nonplastic silt
 - b) Sand
 - c) Clay
 - d) Gravel
9. Which of the following is not listed as a test to model the “long-term” conditions of cohesive soils in the laboratory?
- a) Consolidated drained
 - b) Unconsolidated drained
 - c) Consolidated undrained
 - d) Unconsolidated undrained
10. Which of these is not listed as an in situ foundation material test applicable to wall design?
- a) Pressuremeter test
 - b) Cone penetration test
 - c) Standard penetration test
 - d) Relative density test

CHAPTER 4 – SYSTEM LOADS

11. Which type of earth pressure develops when a wall moves or rotates toward the soil?
- a) Passive pressure
 - b) Inactive pressure
 - c) Active pressure
 - d) At-rest pressure
12. Which type of surcharge load is distributed over a limited area?
- a) Strip load
 - b) Area load
 - c) Line load
 - d) Point load

13. Which of the following is considered a more rigorous technique of seepage analysis applicable to sheet pile wall design?

- a) Flow net method
- b) Line of creep method
- c) Finite element method
- d) Method of fragments

14. True/False: Mooring devices should be designed independent of the sheet pile wall?

- a) True
- b) False

CHAPTER 5 – SYSTEM STABILITY

15. True/False: Deep-seated failure can be remedied by increasing the depth of penetration?

- a) True
- b) False

16. For which type of loading should the fundamental design of the system be optimized?

- a) Conservative loading conditions
- b) Unusual loading conditions
- c) Extreme loading conditions
- d) Usual loading conditions

17. What distance below the top of the exposed wall should an anchor be assumed for initial estimates?

- a) One-eighth to one-fourth
- b) One-fourth to one-third
- c) One-third to one-half
- d) One-half to two-thirds

CHAPTER 6 – STRUCTURAL DESIGN

18. For an anchored wall, the axial component of an inclined anchor force and any external axial loads are assumed to be resisted by vertical reaction where?

- a) At the lower simple support
- b) At the upper simple support
- c) At the lower complex support
- d) At the upper complex support

19. Which of the following sheet pile materials does not need to be limited to very low wall heights subjected to light loads?

- a) PVC
- b) Fiberglass
- c) Wood
- d) Vinyl

20. From a load transfer standpoint, the most desirable position of the wales is where?
- a) On the outside of the piling
 - b) On the inside of the piling

CHAPTER 7 – SOIL-STRUCTURE INTERACTION ANALYSIS

21. In the SSI model, the length of each beam is no more than what?
- a) 5 inches
 - b) 6 inches
 - c) 7 inches
 - d) 8 inches

CHAPTER 8 – ENGINEERING CONSIDERATIONS FOR CONSTRUCTION

22. Voids due to pile driving operations are typically backfilled with what?
- a) Clean sand and gravel
 - b) Cement-sand slurry
 - c) Cement-bentonite-sand slurry
 - d) Compacted clay material
23. During storage, the blocking used for SPZ-23 type sheet pile sections should be placed no more than how far apart?
- a) 15 feet
 - b) 12 feet
 - c) 10 feet
 - d) 2 feet

CHAPTER 9 – SPECIAL DESIGN CONSIDERATIONS

24. For sheet pile exposed to water, the corrosion protection coating should extend how far below the point where the sheeting remains submerged?
- a) 5 feet maximum
 - b) An additional 2 feet
 - c) 2 feet maximum
 - d) A minimum of 5 feet
25. When a sheet pile wall terminates within a levee, the piling is typically extended how far into the full levee system?
- a) A minimum of 5 feet
 - b) 2 feet maximum
 - c) An additional 2 feet
 - d) 5 feet maximum



Answer Sheet for Design of Sheet Pile Walls
 TPDH-00028

****For Office Use only****		
State Board	Course No.	Credit

Please return this answer sheet and your check or money order for \$80.00 to Triton-PDH.com

Please completely fill in one box for each answer

	A	B	C	D
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

	A	B	C	D
21				
22				
23				
24				
25				

I hereby certify that I have studied the course materials, and the above answers are my own.
 No other person has helped me complete this examination.

 Signature

 Date

 Print Name

 State + Speciality + Registration No.

TRITON-PDH.COM
6757 W. Charleston Boulevard, Suite B
Las Vegas, NV 89146



INFORMATION SHEET

NAME _____

COMPANY _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ FAX _____

EMAIL _____

State + Speciality + Registration number _____
(I.E. Nevada CE 12345)

Please return this page with your answer sheet and check or money order for \$80.00 per course.

Please make your check or money order payable to Triton-PDH..

Your test will be graded and a certificate of completion will be mailed back to you upon passing your exam.

If you do not pass your exam, the incorrect questions will be highlighted and returned for your use while taking the exam again. All re-exams shall be billed at the original cost of \$80.00.