edcetera engineering

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 Below.**

2.) **Purchase the Course Online & Take the Final Exam – see note above**

3.) **Print Out Your Certificate**

Tunnel Inspection Manual
Final Exam

1. **This manual provides specific information for the inspection of both highway and rail transit tunnels.**
   a. True
   b. False

2. **As per Figure 2.8, the horseshoe tunnel shape typically exists in:**
   a. clay
   b. shale
   c. sandstone conditions
   d. rock conditions

3. **Regarding *Ventilation Systems*, tunnel ventilation systems can be categorized into ____ main types:**
   a. one.
   b. five.
   c. three.
   d. four.

4. **Regarding *Inspection Qualifications*, the inspection should be accomplished with teams consisting of a minimum of ____ individuals:**
   a. one.
   b. two.
   c. three.
   d. four.

5. **As per Table 3-1, the acronym PCLS stands for:**
   a. Precast Concrete Liner Segments.
   b. Post-tensioned Concrete Liner Segments.
   c. Polymer Cast Liner Sleeve.
   d. Post Construction Limed Shotcrete.

6. **Considering *Inspection of Civil/Structural Elements*, the tunnel owner should establish the frequency for up-close inspections of the tunnel structure based on the age and condition of the tunnel.**
   a. True
   b. False

7. As per Table 4-1, the rating for "Excellent condition – No defects found" is:

a. 9.
b. 5.
c. 0.
d. 8.

8. Considering *Inspection of Electrical Systems*, the main purpose of an in-depth inspection is to verify that the electrical systems are performing as expected.

a. True
b. False

9. As per Table 4-5, the maximum allowable operating speed for passenger trains on class 3 track is:

a. 100 km/h.
b. 25 km/h.
c. 140 km/h.
d. 50 km/h.

10. Considering *Field Data*, for the tunnel structure, the documentation of severe defects should include a sketch:

a. True
b. False