



CALTRAIN GRADES 7-12 QUIZ

Caltrain Electrification is building California's first electrified commuter rail and the West's first diesel to electric rail system. It will transform the way people travel between San Francisco and Silicon Valley, converting 51 miles of rail and replacing 75% of the existing aging diesel fleet with state-of-the-art electric trains. The project will provide faster, safer, more reliable service while enhancing equity and access for underserved communities, and mitigating climate change. Test your knowledge of Caltrain's new electric trains with the questions below! Need a hint? Explore caltrain.com/electrification to find the answers!

1. What benefits will Caltrain Electrification provide?
 - a. Improved train performance
 - b. Less engine noise from trains
 - c. Improved air quality and reduced greenhouse gas emissions
 - d. All of the above

2. Where are the electric trains assembled?
 - a. San Jose, California
 - b. Salt Lake City, Utah
 - c. New York, New York
 - d. Pittsburg, Pennsylvania

3. Traction Power Facilities are electric power stations used to provide, distribute, and regulate electricity to Caltrain's new high-performance electric trains. These secure stations work with the vehicles through an overhead contact system (poles and wires). As part of Caltrain Electrification, how many traction power facilities will be installed between San Francisco and San Jose?
 - a. 6
 - b. 8
 - c. 10
 - d. 15

4. What are the three types of Traction Power Facilities?
 - a. Traction Power Substation, Paralleling Station, Switching Station
 - b. Primary Power Facility, Backup Power Facility, and Switching Station
 - c. Full Power Facility, Light Power Facility, and Traction Power Facility
 - d. Traction Power Facility, Backup Power Facility, Switching Station

5. Which type of facility provides a connection from the main power source and transforms it from 110 kV to 25 kV?
 - a. Switching Station
 - b. Traction Power Substation
 - c. Paralleling Station
 - d. Backup Power Facility

6. Which type of facility 'boosts' and helps regulate power throughout the electric train system?
 - a. Switching Station
 - b. Traction Power Substation
 - c. Paralleling Station
 - d. Backup Power Facility

7. How many metric tons of greenhouse gas emissions will Caltrain Electrification reduce each day?
 - a. 50 metric tons
 - b. 100 metric tons
 - c. 110 metric tons
 - d. 150 metric tons

8. How will travel times and frequency change with the new electric trains?
 - a. Longer travel times and less frequency
 - b. Shorter travel times and less frequency
 - c. No change in travel times or frequency
 - d. Shorter travel times and more frequent service

9. Who was president when service started on the Caltrain corridor?
 - a. Thomas Jefferson
 - b. Abraham Lincoln
 - c. Ulysses S. Grant
 - d. Theodore Roosevelt

10. Which of the below is NOT part of the Caltrain Electrification construction process?
 - a. Locating underground utilities
 - b. Testing soil conditions
 - c. Inspecting signal/communication equipment
 - d. None of the above, all steps are part of the Caltrain Electrification construction process

11. Which of these amenities will NOT be onboard the new electric trains?
 - a. Free Wi-Fi
 - b. Bike storage
 - c. Electrical outlets
 - d. Screens on the back of every seat

12. In which city are the new electric trains tested above corridor speeds?
 - a. Pueblo, Colorado
 - b. Salt Lake City, Utah
 - c. San Diego, California
 - d. Las Vegas, Nevada