

Sieve Analysis – Classroom Exercise

This section will discuss the creation and implementation of a classroom exercise that can be used to represent some of the behind-the-scenes jobs that the “Heavy Civil” industry can provide to people wanting to work in the industry.

Meet with CTE Educators to discuss the availability of coming into the classroom and presenting a lesson on a practical real-world exercise that pertains to your area of expertise in the construction industry. This could be as simple as a PowerPoint presentation or can become a greater lesson with a shop experience and even leaving the class with a homework handout revolving around a real exercise you would have to perform in your job role.

Determine the time available for classroom visit.

- a. Introduction = approximately 10 minutes
- b. Exercise instructions = approximately 10 minutes
- c. Hands-on-exercise = approximately 30 minutes
- d. Q&A = approximately 10 minutes

This exercise needs approximately 60 minutes.

Once the presentation material is completed, set up a trial run at the school with the teachers to make sure timing and technical issues are worked out prior to the final run with students. Make sure the facility is setup for easy presentation. Coordinate any supplies necessary to complete the exercise.

Please make sure the presenters and assistants are familiar with the exercise and can answer questions as they arise.

Tip! Candy give aways are always a good thing to have when keeping the attention of students.

The following resources will help to give you a better understanding of the lesson that was presented along with developing a lesson in your field of expertise.

Sieve Analysis - Instructions: PDF Document – Step by Step instructions on how to present the exercise.

Sieve Analysis – Activity Handout: PDF Document - Activity Handout to explain the shop exercise and guide the students step by step through the math exercise.

Sieve Analysis – Supply List w/pictures: PDF Document – Pictures and list of supplies needed for exercise.