The Construction Academy
Sponsored by Graniterock

Overview
Graniterock is excited to offer 25-30 spots for its second annual Construction Academy to interested high school juniors and seniors. This program exposes students to the wide variety of careers available in the heavy civil construction and construction materials industries. Students are selected for the academy based on an application, 1-2 letters of reference, with additional input from high school teachers. Prospective students should demonstrate a strong interest in construction, engineering, heavy equipment operation or heavy equipment maintenance. Students should also possess a high level of maturity and dedication to hard work.

Expected Outcomes
We expect participants would learn the following:

• Importance of safety in relation to heavy equipment usage
• Importance of a strong work ethic
• Importance of being able to communicate effectively
• Ability to integrate technology into their work
• Basic equipment terms, including types and uses
• Ability to exercise cooperative teamwork skills
• Responsibilities of a good heavy equipment operator
• Purpose and objective of a trade apprentice training program

We also hope graduates of The Construction Academy will go on to successfully apply for jobs at Graniterock, either via internships or trade apprenticeship programs.
Tentative Schedule for The Construction Academy 2016-17

September 20
Safety. Introduction to best safety practices in the heavy civil construction industry and program overview. Graniterock’s corporate office in Watsonville.

October 18
Aggregates (rock). Experience the work and careers available in the production of construction aggregates – from mine engineering to plant or heavy equipment operator. Learn how aggregates are an essential component of asphalt, concrete and the construction of our infrastructure. Graniterock’s A. R. Wilson Quarry in Aromas.

November 10
Asphalt. See the asphalt roadway construction process from start to finish – engage with the production of asphalt at the plant, the hauling of that asphalt to a job site and the construction work of putting it down to build a road. Experience the work and careers available in asphalt. Graniterock’s Aromas asphalt facility.

December 8
Concrete. See the concrete construction process from start to finish – observe the batching of concrete at a plant, delivery of the concrete in a mixer truck, and the placement and finishing of that concrete at a job site. Learn about the work and careers available in concrete. Graniterock’s San Jose concrete facility.

January 17
Bridge Work; Mobile Equipment. Introduction to the construction process for bridges and concrete structures. Experience the maintenance and repair work done at a high volume mobile equipment shop, and careers available in modern equipment maintenance. Graniterock’s San Jose construction facility and mobile shop.

February 16
Materials Research and Testing. Learn about the science that goes into reliable construction materials. Experience testing of aggregate, asphalt and concrete materials. Graniterock’s materials research and testing lab in Aromas.

March 14
Construction Job Site. In-depth tour through a heavy civil construction job site. Hear first-hand from field supervisors and heavy equipment operators who build our local infrastructure projects – describing job site challenges they face, and the extensive career opportunities available to them. An active Graniterock job site in or near San Jose.

April 11
Green Construction; Construction Technology. Introduction to the growing field of green construction and exposure to the advanced technology (such as GPS-operated equipment) that drives heavy civil construction work. Graniterock’s corporate office in Watsonville.

May 4
Operate Heavy Equipment. Safely. Get hands-on experience operating heavy civil construction equipment, in a controlled environment, supervised and taught by seasoned construction professionals. Graniterock’s A. R. Wilson Quarry in Aromas.