

GRADES 9-12:

Career Field: Standard Engineering and Science Technologies

65:3: Describe postsecondary education and career opportunities in the field of Construction Management.

PROCEDURE:

In discussion before viewing *Construction Management*, the teacher may consider engaging students in discussion on any of the following topics:

- Construction Managers oversee projects from planning and development through the completion of the construction phase.
- The field of Construction Management relies on support from many different disciplines to bring a project to completion.
- Construction Managers work with design teams including Architects and Engineers, as well as sub-contractors who work in specific trades such as concrete, plumbing, construction, electrical, etc.
- Construction Management individuals rely heavily on skills from the STEM content areas – Science, Technology, Engineering, and Math.
- Construction Management individuals typically act as either Project Engineers or Project Superintendents.

In discussion after viewing the *Construction Management* video, the teacher may have a follow-up discussion on the same topics discussed before viewing the video.

BEFORE VIEWING:

Distribute the Agree-Disagree chart and the Pre and Post-viewing guide on the following page to provide focused viewing for students while watching the *STEM Career Lab* video, *Construction Management*.

Have each student complete the “Before Viewing” column on the Agree-Disagree Chart and the “What I Already Know” column of the Guided Viewing Worksheet. Let students know it’s okay if they do not know all the answers.

WHILE VIEWING:

Play the *Construction Management* video and instruct students to now fill out the “What I learned” Column. Students will make notes about their impressions of needed skills in science, technology, engineering and math and how they need to prepare to go into a career in Construction Management.

AFTER VIEWING:

Have students complete the “After Viewing” column on the Agree-Disagree Chart. Discuss the changes in their answers, then use the Guided Viewing worksheet to facilitate a post viewing discussion with students.

DIRECTIONS:

Mark whether you agree or disagree with each statement in the left column before viewing the video. After viewing the video, identify whether you agree or disagree with each statement in the right column. Discuss each statement as a group.

<i>Before Viewing</i>	<i>Statement</i>	<i>After Viewing</i>
Agree Disagree	The Construction Management field involves only manual labor.	Agree Disagree
Agree Disagree	Construction Management projects require teams of people with many different skills.	Agree Disagree
Agree Disagree	The Construction Management field requires highly skilled professionals with a solid background in STEM subject areas.	Agree Disagree

	<i>What I Already Know</i>	<i>What I Learned</i>
1. What is Construction Management?		
2. How do you become a Construction Manager?		
3. What are your perceptions of the Construction field?		
4. Who are the other professionals that Construction Managers work side by side with?		
5. Who communicates to the Construction Manager what and how the project needs to be built?		
6. What are some of the key STEM subjects that apply to Construction Management?		
7. What are some of the educational opportunities and pathways for Construction Management in Ohio?		
8. What is a co-op program, and what are the benefits of participating in one?		