



**Virtual Learning**

# **Career Explorations: Civil Engineer**

**May 8, 2020**



Civil Engineering and Architecture  
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Lesson: **May 8, 2020**

**Objective/Learning Target:**

Students will explore Civil Engineering as a career path.



# What do they do?

“**Civil engineers** deal with the design, construction, and maintenance of the physical and naturally built environment, including public works such as roads, bridges, canals, dams, airports, sewerage systems, pipelines, structural components of buildings, and railways”

Wikipedia

# What skills do they need?

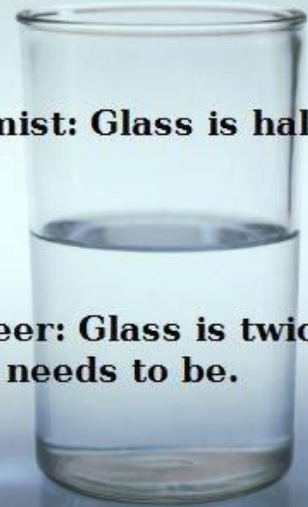
Civil Engineers require strong technical (science, physics, materials knowledge, etc.) and mathematical skills, as well as communication, analytical, critical-thinking, organizational, visualization, and artistic skills. They also must be proficient with specialized tools and technology.

<https://onlinemasters.ohio.edu/blog/essential-skills-for-a-career-in-civil-engineering/>

**Optomist: Glass is half full.**

**Pessimist: Glass is half empty**

**Engineer: Glass is twice the size it needs to be.**





Watch the video:

## How to Become a Civil Engineer

After watching the video, answer the following questions in your engineer's notebook or on a piece of notebook paper. You will need to utilize additional resources to fully answer the questions (remember to cite your sources).



# Questions

1. What are the main job responsibilities of a civil engineer?
2. What is the average salary of a civil engineer (use the most current information you can find)?
3. What is the job outlook for a civil engineer in Kansas City? Is the number of civil engineers needed going to increase or decrease in the future?
4. What types of activities could a civil engineer expect to do on a daily basis?
5. What does a person need to do to become a civil engineer? How long might it take?



# Additional Resources

<https://www.youtube.com/watch?v=PkHixLc0Kn0>

<https://www.youtube.com/watch?v=bFljMHTQ1QY>

<https://www.youtube.com/watch?v=HAx7E3Bu7gA>