

Lesson # 4 Introduction to Civil Engineering

1. Civil engineering has a rich and long history. It can be argued that it is the oldest form of engineering dating back to when people first started to build structures for shelter. Historically it dates back to ancient civilizations from about 4000-2000 BC.



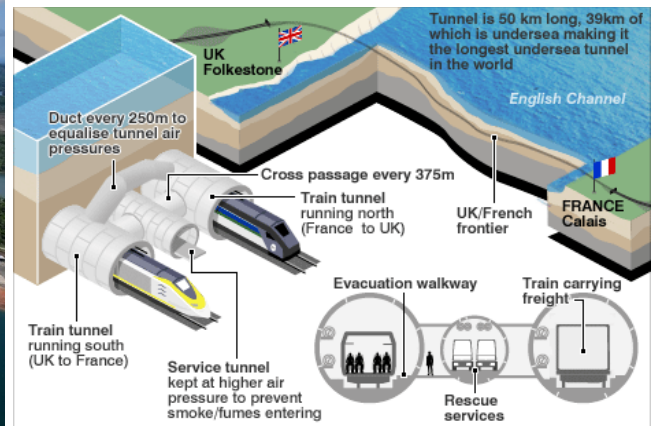
2. Civil engineering deals with the construction of roads, bridges, railways, buildings, irrigation, sanitation, and any civilization infrastructure.



3. Some early examples are: the Pyramids (2700–2500 BC), Roman Aqueducts of Segovia (50 AD), Great Wall of China (220 BC), Chichen Itza, the Parthenon (447–438 BC).



4. Some modern examples are: the [Burj Khalifa](#) (the tallest building in the world, 828m or 2717 ft, completed in 2010), [Panama Canal](#) (77 km long waterway that connects the atlantic to the pacific, completed in 1914), [Channel Tunnel](#) (second longest tunnel in the world, completed in 1994), [Qingdao Haiwan bridge](#) (the longest bridge in the world at 42.6 km and completed in 2011).





5. Civil engineers in Vancouver BC earn an average salary of \$67,044.00 per year or a median (halfway point) salary of \$65,084.00 per year. The range of salary is \$47,986 - \$89,397. A person requires approximately \$40,000 - \$60,000 (2017 values) to live in Vancouver as a renter.