

The STEM Explanation:

Engineers who design rescue equipment need to test their equipment to make sure it works, but they do not want to wait to test until an actual rescue. In order to be confident that the tool or device will work in an emergency, it must be tested under a wide variety of circumstances before a real-life emergency. Rescues have to be quick and efficient, yet each one is somewhat unique. If you are designing rescue equipment for a client, you want to make sure your equipment is versatile, durable, lightweight, and portable.

Career Connection:

Engineers design and develop many different things that help solve everyday problems. They use advanced math skills to design machines, bridges, electronics, and much more. There are several different types of engineers that specialize in certain areas such as electrical engineers, mechanical engineers, structural engineers, robotic engineers, etc.

Resource:

- http://ef.engr.utk.edu/efd/diversity-2011/mites-2011/tti_meeting_10.pdf

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