

**Education Level:**  
Higher Education

**Subject Area(s):**  
Engineering

**Time required:**  
10 hrs+

**Adobe Skill Level:**  
Beginner - Intermediate



## Create a 3-minute Project Pitch

### Overview

As an engineering professional, you will be required to communicate engineering designs, principles and problems to an audience with limited subject matter knowledge. This can be a challenging task. Therefore, this project aims to equip you with the necessary skills for success in your future roles and positions in the engineering field.

This project requires you to document the process and findings of building a bridge and testing its load capacity. You will need to communicate this in a video and webpage format. Adobe Express and Adobe Rush will be used to support you in visually communicating your ideas, processes and findings, while also developing and enhancing your digital literacy skills.

Adobe Express enables you to create a dynamic and engaging webpage that can be shared to a wide and varied audience. A variety of content types such as images, audio, video and animation can be included within the webpage enabling the reader to engage with the media in multiple formats. Adobe Rush will allow you to capture, edit and share videos, which will also support you in communicating your engineering problem and subsequent solution to an engineering and/or non-engineering audience.

Please note that the Adobe Express page and embedded media and content will be made accessible to anyone with the shareable link.

## Supporting tools and resources

- Student sample
- Template (if applicable)
- Rubric/marking guide
- [Adobe Express](#)
- [Adobe Rush tutorials](#)

## Student steps

- 1 [15 mins] Install the Adobe Premiere Rush application on your mobile device and/or desktop and sign up with your email. Navigate to Adobe Express and sign up using your same email address.
- 2 [1-3hrs] Familiarise yourself with both the Adobe Premiere Rush and Adobe Express interface by referring to the online resources, tutorials listed in the 'Supporting tools and resources' section above.
- 5 [5 hrs] **Part 1: Document the process and findings of building a bridge**
  - Design, build and load test a bridge that clears a span of 600mm and must sustain a load of 10kg for a minimum of 10 seconds. You can be as creative as you like with the materials and building process you use. For example, you could use spaghetti, popsicle sticks, marshmallows, straws, toilet paper roll, Lego blocks or anything else that you can think of!
  - Film your actions during the bridge build and load test processes so that you have enough footage for your 3-minute video. You may also wish to record and collect any other relevant audio and/or images during this process to include in your video.
- 5 [3hrs] **Part 2: Create a 3-minute video of your bridge build and load process**

In your video, document the following:

  - DIY bridge build
  - The materials used
  - An overview of the processes involved in the build
  - Final output (including a clear demonstration of weight of bridge, span and load capacity)
  - A short reflection including any problems encountered.

Your final video edit must include:

  - Title page
  - Text/annotations
  - Graphics
  - Transition effects
  - Time lapse of building process
- 6 [1hr] **Part 3: Create a webpage to visually communicate your findings**

In your webpage, include the following:

- A brief introduction of each group member
- A photo of you and your bridge
- Description of your bridge build including the materials used, span and weight of bridge
- Your bridge building and load test video

**Note:** Your webpage should use 3 or more different layout options and be aesthetically pleasing and easy to follow for an engineering and/or non-engineering audience.

7 [10 mins] Share your Adobe Express page (including embedded video) by submitting a shareable links via your online Learning Management System or as outlined by your teacher.

## Marking Criteria (optional if assessed)

**Content** Details, engagement level, easy to understand, consistent formatting and use of multiple media

**Program** Adobe Premiere Rush and Adobe Express

**Process** Preparation, Creation and Sharing

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