



# Technology Independent Project

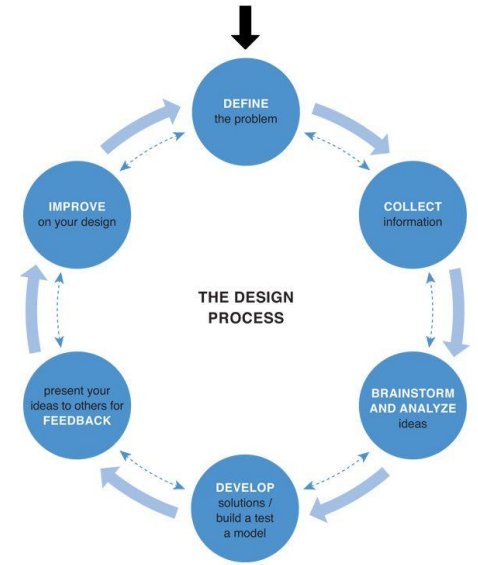
Western Technical-Commercial School

## [YOUR PROJECT TITLE] PROJECT PROPOSAL

[Select Date]

### OVERVIEW

Independent project proposals allow students the flexibility to choose their project, applying course curriculum and process to their project direction. Base knowledge and skill level will be a starting point and end project goal which will require some planning such as identifying needed resources – time lines, materials, and tools, steps to accomplish project, and alignment to course curriculum expectations.



### 1. Situation

/5

**i** [Describe the big picture, the background, how this project came about, and who is involved to get an idea-understanding on the bearing/direction of the project/purpose. Also establish a baseline of knowledge/skill level. Example below:]

Note: To delete any tip (such as this) just click it and start typing. If you're not yet ready to add your own text, just click a tip and press spacebar to remove it.

Recently finishing a grade 11 Technological Design course designing a FIRST robotics frame and drive system, I am looking forward to further learning. I am currently in Technology X program leaning about its related field which consists of engineering design, communications, and standards. I am looking at projects that will enable me to practice and apply my related knowledge, skills, and proper steps, to learn and complete an engineering related project.

### 2. Problem/Challenge

/10

**i** [Problem/challenge is the scope that defines the boundaries of a project. The challenge defines what will be done (your idea solution), what won't be done (limits/extents), when it will be done (time), and what the result will look like. It is what you want to accomplish and or resolve. Example below:]

Requirements:

- Purpose/function of project/idea... design a widget to do XYZ.
- Size of project and does it meet the curriculum

Planning process:

- Researched background info and multiple ideas for project XYZ
- 4 isometric sketched thumbnail ideas with final idea sketched ortho/iso with dimensions
- 3D CAD model and appropriate drawings using Solidworks, 3D printed prototype, and marketing poster

Time-line breakdown (2 weeks):

- 3 days for research and thumbnails, 2 days for final sketch idea and details
- 3 days for 3D CAD model and drawings and 2 days for marketing poster



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## 3. Ideas/Investigation

/4

**i** [Show how, what, and where you would generate a lot of ideas from, such as your own experiences, peers, and professionals. Locate support resources, information, illustrations, pictures, equipment, tools, materials, and process steps to help with the design, testing, prototyping, marketing and build of the project. Remember this is a proposal so the ICE part of this process is not done yet and is for your future planning.]

## 4. Create & Construct

/2

**i** [Show how and what you would select, for the best idea to use with the direction and completion of your project/idea (in the Problem/Challenge). This would include your final design, materials, steps to take, tools, and equipment used to complete the project.]

## 5. Evaluation

/2

**i** [Once project is complete, how would you test to see if it meets the needs and requirements of the Problem/Challenge.]

## SELF/PEER CHECK AND SUPPORT

/2

Below, double check your entries above and have a peer review your independent project proposal for feedback, refinement, and an evaluation rating.

| Name (last initial, first name) | Comments | Evaluation /25 |
|---------------------------------|----------|----------------|
|                                 |          |                |
|                                 |          |                |
|                                 |          |                |

Approved By \_\_\_\_\_

Date \_\_\_\_\_

Note: Once completed, self and peer evaluate the proposal and submit to your instructor for approval before starting project. You may be required to make a few changes, modifications, and/or updates as suggest by your instructor.