



*FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT
Department of Mechanical Engineering, Mechatronics and Industrial Design
Industrial Design (Three-Dimensional Design)
Competition Day 4 August 2017*

1. Introduction

Welcome to all participants wishing to develop their understanding and interest of Industrial Design.

2. Assignment

This year, teams of three learners will be required to enter the competition for Industrial Design. Each team is required to research Industrial Design and what is often termed *Design Thinking*. Recommended websites:

- <http://designmind.frogdesign.com/>
- <http://www.designkit.org/>
- <http://www.ideo.com/>

Teachers should visit: <http://www.designthinkingforeducators.com/>

3. Materials

Materials and equipment will be provided for each team.

4. Objective

To design a water balloon protector that will stop a filled up water balloon from popping when dropped.

Learners will be required to draw their ideas. They will then be given specific heights to test their designs and make changes.

The final design will then be assessed.

5. Learning objectives

To give the learners a basic idea of the type of work the Industrial Designers do and give them a taste of the *Design Thinking* process.

6. Procedure

- Teams should RSVP to allow us to allocate the appropriate amount of materials, equipment and student assistants.
- Teams are only required to do some preliminary research as specified in the Assignment). They will be given the specific task on the day of the competition.



7. Time

You have time from the day you receive this brief until the day of the competition at Tshwane University of Technology to do preliminary research. On the day of the competition, you will be given the task you should complete. You will only have the time on the day and no preparation is required other than doing some preliminary research. The specific task will only be provided on the day of the competition so that no team is advantaged.

8. Teams

The competition is for teams of three learners.

9. Evaluation

Specific evaluation criteria will be provided with the brief, given on the day of the competition. However, in general neatness, originality and efficiency are always considered important.

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