COIL GUN

Use circuit designing techniques and knowledge of electro-mechanics to accelerate your bullet with the help of triggering circuit. Prove yourself in the design war with your skill and knowledge put to test. Come forward, participate in this event and own your own gun and that too "electric".

INTRODUCTION :

A coil gun is a type of projectile accelerator consisting of one or more coils used as electromagnets in the configuration of a linear motor that accelerates a ferromagnetic or conducting projectile to high velocity.

PROBLEM STATEMENT :

You are supposed to build a coil gun which runs only on the given DC power supply to fire a given small ferromagnetic bullet to a maximum horizontal distance.

MAIN EVENT :

It consists of 3 rounds which will put your knowledge, skill, and accuracy to test.

Round l :

This will be a skill test round. It will check the participant's knowledge and scope regarding coil gun. MCQs will be asked on concept of coil gun.

Round ll :

The teams which are looking forward to present their coil guns will be given an opportunity to give a presentation in this round. All necessary details and specifications of coil gun are to be specified by the contestants in this round.

Round lll :

This round will decide the efficiency and strength of coil gun presented by contestants. Contestants are supposed to hit a dummy target as accurately as possible with their gun.

JUDGING CRITERIA :

Round l :

Marks will be given on the basis of number of questions correctly answered.

Round ll :

Marks distribution will be based on the following criteria.

1. Design of coil gun (efficiency, strength, reliability).

2. Final range (average of all three chances). The first point of contact will be considered for distance measurement.

Round lll :

Marks will be awarded on the basis of accuracy of the gun, depending on how close the bullet misses the target

EVENT MANAGERS

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