

Project Based Learning (PBL) Projects – Health and Safety Risk Assessment and Guidelines.

Every student must perform a health and safety risk assessment of their FYP before commencing any work. This should be done in consultation with their project supervisor. The FYP Risk Assessment form must be assessed, along with any required material such as Material Safety Data Sheets, and signed off by a member of the Health and Safety Committee.

The form is designed to identify any hazards that the proposed project might present to the student or people that may come into contact with the project.

Issues to consider include

- **Hazardous materials, for example flammable materials, epoxies, cements, paints, aerosols, carcinogens, poisons, toxins...**
- **Working alone, at height, in confined space, in a dangerous areas**
- **Working with electricity**
- **Working with machines and tools**
- **Working with bio materials**
- **Working with heat or flame (e.g. soldering or hot air guns)**
- **Working with lasers**
- **Working with heavy or large items**
- **Working with fast spinning objects (e.g. fans or propellers)**

Where risks are identified, the student must discuss how the risk will be managed by listing what controls are in place and what further controls may be required.

The Risk Assessment Form should be included in your final year project report.

Department of Electronic Engineering, Maynooth University

PBL PROJECT RISK ASSESSMENT FORM

NAME AND STUDENT NUMBER: Group 2 A. Nother, B. Nother, C. Nother, D. Nother	PROJECT NAME: An Automatic Predetermined Path Delivery System	
SUPERVISOR: XXXXX	PROJECT LOCATION: Various labs see the PBL schedule for details.	
BRIEF DESCRIPTION OF PROJECT: to build a device that is capable of automatically delivering a package by following a pre-laid out path. It should be able to avoid any unforeseen obstacle and reacts appropriately.		
Hazards, Risk [High(H) Medium (M) Low (L)], and Control Measures		
HAZARD	Risk	Controls
Electrical work	L	Isolated PSU will be used, max voltage 18VDC. Most work will be on breadboards.
Soldering	L	Training will be given on correct solder methods. Suitable PPE will be used. Use of solder station with fume extractor. Use of Non-Pb solder only.
Mechanical work	L	Light mechanical work may be required, ie bolting of metal segments, some bending of metal to shape. If needed access to the workshop will be done under the workshop guidelines.
Identified risks should be discussed with your supervisor and a safe system of work agreed. A more in depth risk assessment may be required after initial review. Do not proceed until form is signed off.		
Further Controls Required		
None Note: that this is not currently and exhaustive list of potential risks. As risks are identified they will be added to this document and assessed.		
SIGNATURE OF STUDENT: _____		DATE: _____
SIGNATURE OF SUPERVISOR: _____		DATE: _____
DEPT HEALTH AND SAFTY OFFICER: _____		DATE: _____