

INDUSTRIAL RISK ANALYSIS

PRESENTATION OF THE PROJECTX-FINAL LEVEL 2.

Lycée Polyvalent
Isaac NEWTON

Core area

GENERAL / KNOWLEDGE: **SAFETY AND HEALTH** in the industrial activities

PARTICULAR / ACTIVITY: **Overlook the kind of risks that a company assumes**

Learning Outcomes achieved (to be developed in the future related with ECVET credit system)

1. Determine the risk involved in a specific industry
2. Risk assessment



handling and disposing of contaminated filter
breathing in certain dusts, fumes or other airborne contaminants at work.
Falls from a height
Falls on a level
Manual load handling , forklift uses,
Impacts and knocks
Noise and vibration
Electrocution

Objectives of the theoretical knowledge

1. Determine the risk involved in a specific industry
2. Falls, forklift uses, fire, explosion, noise, vibration, thermal, biological, toxic, chemical, mechanical, electrical risks
3. Recognize health and safety signs and symbols

List of activities

1. To watch NAPO's Film (European Agency for Safety and Health at Work)
2. To answer a multiple choice or "fill-in-the-bubbles" test



Brief Description of the Practice

1. The objective is to make a round in the warehouse, factory, school laboratories...
2. Have the ability to assess each approached risks in theory
3. Must have the ability to prevent each risk with a proposal

Steps or activities to be performed by the student

1. to follow the risk assessment guidance manual
2. to do the inventory of existing risks
3. to give measure to prevent such risks

Risk assessment and risk analysis of technical systems can be defined as a set of systematic methods to:

- Identify hazards
- Quantify risks
- Determine components, safety measures and/or human interventions important for plant safety



Chemical storage

Personal protective equipment



How to use the "Risk assessment guidance manual" (18 pages)

Example of dangerous exposures



Fiche n° 12

RISQUE LIÉ A L'ELECTRICITE

C'est un risque de brûlure ou d'électrisation consécutive à un contact avec un conducteur électrique ou une partie métallique sous tension.

Exemples de dangers et/ou de situations dangereuses

- conducteur nu sous tension accessible (armoires électriques ouvertes, câbles détériorés)
- lignes aériennes ou enterrées
- châssis ou bâtis accidentellement sous tension (défaut de mise à la terre...)
- non habilitation électrique du personnel intervenant
- identifier et baliser les lignes électriques au dessus des zones de travail

Dangers et/ou situations dangereuses dans votre entreprise

Lined area for recording identified dangers and situations in the school.

Assess the risk in your school



Example of Safety measures



Exemples de mesures de prévention

- vérifier annuellement les installations électriques par un personnel qualifié (entreprise ou organisme de contrôle)
- réaliser les travaux portés sur le registre de vérification
- utiliser des détecteurs de lignes électriques pour travaux à l'extérieur
- habiliter le personnel intervenant sur les installations électriques

Mesures de prévention à proposer

Lined area for recording proposed prevention measures.

Safety proposals



Maintenance Laboratory in the Lycée NEWTON



Mechanical





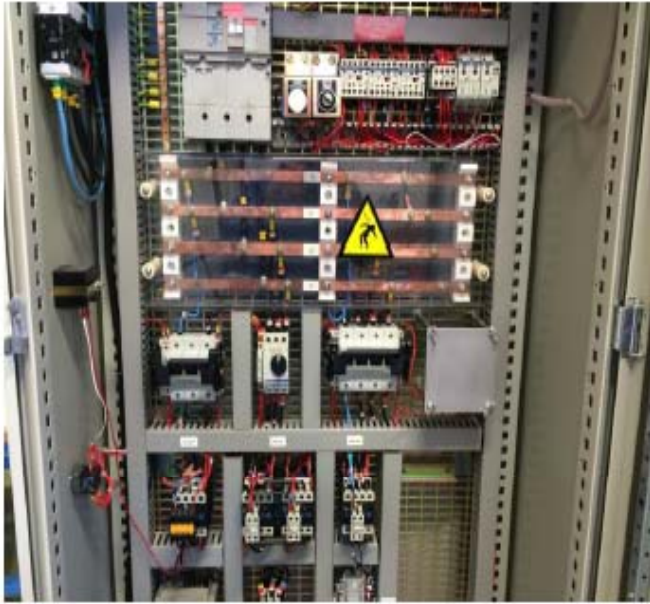
Noise



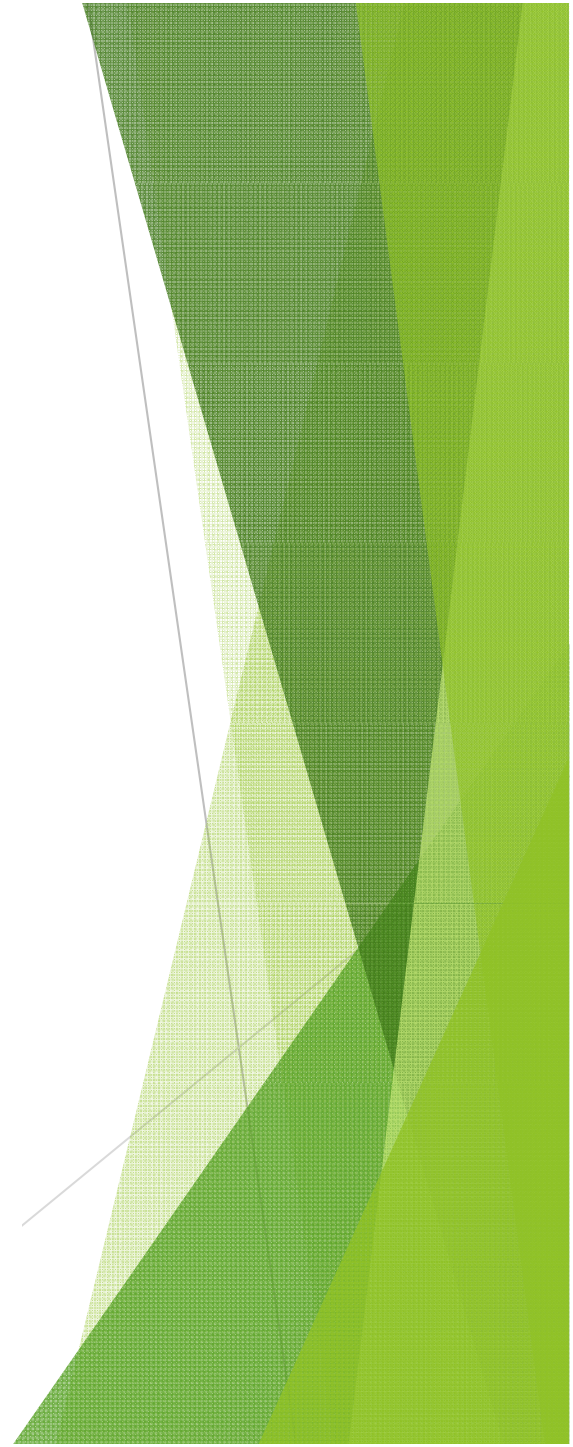
Chemicals

Health Hazard	Env.	Explosive
 Corrosive Irritant Harmful Very Toxic Toxic Extremely Toxic	 Aquatic Toxic Harmful to Aquatic Life Very Harmful to Aquatic Life Extremely Harmful to Aquatic Life	 Explosive Highly Explosive Very Explosive Extremely Explosive
 Highly Toxic Toxic Very Toxic Extremely Toxic	 Highly Flammable Flammable Very Flammable Extremely Flammable	 Highly Oxidizing Oxidizing Very Oxidizing Extremely Oxidizing
 Highly Infectious Infectious Very Infectious Extremely Infectious	 Highly Hazardous to the Environment Hazardous to the Environment Very Hazardous to the Environment Extremely Hazardous to the Environment	 Highly Explosive Explosive Very Explosive Extremely Explosive

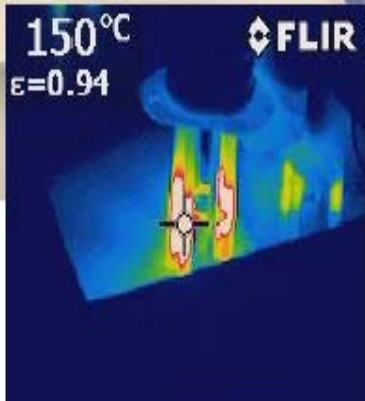
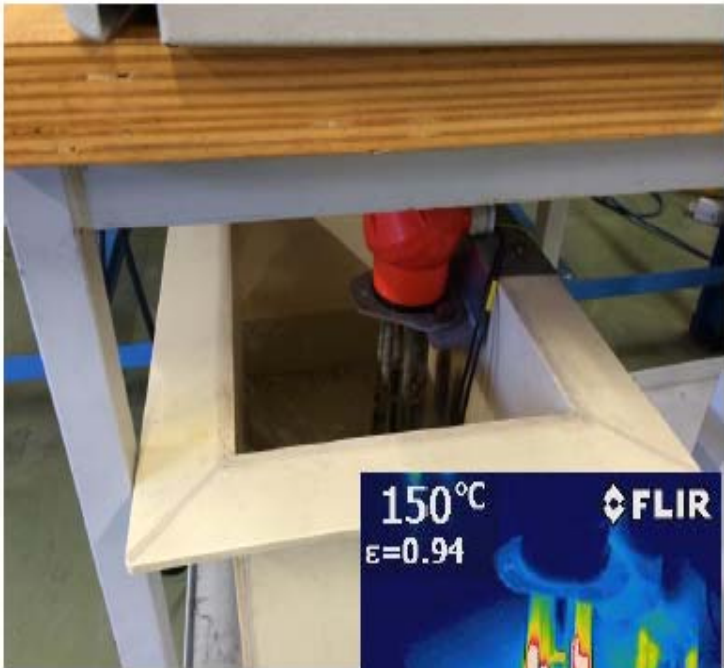




Electrical



Thermal





Handling

