

## 2. PRESENTATION OF THE "OCCUPATIONAL HEALTH & SAFETY RISK ASSESSMENT GUIDE" ---

### 2.1 INTRODUCTION

The general model on which this “Occupational Health & Safety Risk Assessment Guide” is based on appears in Fig. 1.

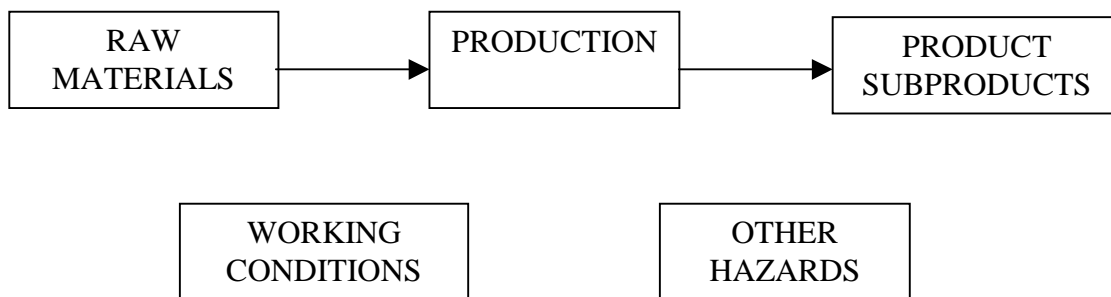


Fig.1 GENERAL MODEL FOR THE RISK IDENTIFICATION IN A WORKPLACE

According to the above model, the identification and recording of the potential hazards in a particular workplace is done by following the next steps:

#### 1. HAZARDS ASSOCIATED WITH THE RAW MATERIALS USED

- 1.1 Hazards associated with the raw material supply
- 1.2 Hazards associated with the temporary storage of the raw materials used.

#### 2. HAZARDS ASSOCIATED WITH THE CURRENT PRODUCTION PROCEDURE

- 2.1 Tools, machinery, fixtures and equipment in use
- 2.2 Method of work
- 2.3 Repair and maintenance

2.4 Mechanical hazards and ergonomic faults in the workplace.

### **3. HAZARDS ASSOCIATED WITH THE WORKING ENVIRONMENT**

3.1 Physical, Chemical and Biological Hazards

3.2 Job site.

### **4. HAZARDS ASSOCIATED WITH THE FINAL PRODUCT AND SUBPRODUCTS**

4.1 Hazards associated with the taking away of the final product and subproducts

4.2 Hazards associated with the temporary storage of the final product and subproducts.

### **5. OTHER TYPES OF HAZARD**

5.1 Hazards associated with the organisation of work

5.2 Psychological factors, stress etc

5.3 Hazards associated with the particular requirements of the work and the particularities of the specific workplace.

For the estimation of each one of the identified risks the following Likelihood / Severity table is provided.

<b>LIKELIHOOD</b>	<b>SEVERITY</b>
<b>0:</b> zero probability	<b>0:</b> no effect
<b>1:</b> very unlikely event	<b>1:</b> Insignificant effect (e.g. only nuisance)
<b>2:</b> can happen in emergency situations	<b>2:</b> may lead, when unprotected, to small injuries which require treatment
<b>3:</b> can happen in normal circumstances	<b>3:</b> may lead, when unprotected, to injuries with temporary incapacity
<b>4:</b> frequent exposure	<b>4:</b> may lead, when unprotected, to irreversible damage of health or permanent injury
<b>5:</b> permanent exposure	<b>5:</b> may cause death, when unprotected

The “**Occupational Health & Safety Risk Assessment Guide**” is separated in four different parts. Each one of these parts has a well-defined role and it concerns a different step of the risk assessment procedure.

Part A. GENERAL FACTS ABOUT THE OCCUPATION is filled with the following:

- General description of the occupation.
- Typical/ common hazards relevant to the occupation.
- Occupations most common work related diseases and illnesses.
- Identification of the personnel that are subject to the risks relevant to the occupation.
- Legislative requirements.
- Personal Protective Equipment commonly used or considered necessary.
- General preventive measures commonly taken or considered necessary in the work of the occupation in question.
- Description of the specific workplace.

Part B. WRITTEN RISK ASSESSMENT is filled with the following:

- Identification, Recording, Analysis and Evaluation of the risks (considering the existing conditions of the specific workplace, e.g. noise or light level data etc).
- Existing and proposed risk control measures.

In cases of employees permanent or frequent exposure in a particular hazard such as high level of noise, hazardous chemical, biological or other type of substance, the following additional actions are considered necessary:

- Medical examinations and statistical analysis
- Measurements of the level of the hazards and the hazardous substances.

Part C. POTENTIAL HAZARDS AND PERSONAL PROTECTIVE EQUIPMENT is a form where hazards are directly associated with parts of the body in order to choose the appropriate Personal Protective Equipment, according to the requirements of the relevant legislation.

Part D. LEGISLATION – STANDARDS - REFERENCES is filled with the following:

- Relevant Greek legislation.
- European EN Standards relevant to the proposed Personal Protective Equipment.
- Specialized Bibliographical References.

In the following pages a Model of the guide is given, with the relevant filling instructions, and four Application Examples for the occupations of:

- gas welder
- electric welder
- machine tool operator
- fitter.