

"The intuitive way to assess exposure to noise"

Applications

Assessment of exposure to noise in the workplace. Includes:

- Calculations and reports in accordance with ISO 9612 and Spanish, Portuguese and French Decrees.
- Assessment by STRATEGIES:
Tasks / Job / Working Day
- Automatic calculation of UNCERTAINTIES.
- Assessment of results with and without PPE (hearing protectors).

User-Friendly

- Sequential structure by tabs.
- Intuitive working method.
- Saves information as a project.
- Instantaneous generation of reports.

Characteristics

- Complies with ISO 9612.
- Imports multiple workers.
- Automatic and manual input of editable measurements.
- Measurement filters for quick execution of required assessment.
- Simulator of TECHNICAL and ORGANISATIONAL MEASURES (improvements).
- Comparative report of technical and organisational improvements (before and after).

CESVA Risk Manager is the complete solution for a simple, efficient assessment of risks arising from workers' exposure to noise.

CRM is designed to make the steps described in ISO 9612 and Spanish, Portuguese and French decrees quicker and easier. For this reason it is structured, sequentially in five areas, each in an independent tab:

- In the first area, the structure of the company is introduced, along with the workers by strategy (task, job or working day). The application facilitates the process because it allows workers data to be entered automatically from a table (as Excel®). CRM enables the number of measurements to be planned, thus saving time and money.
- In the second area noise measurements are introduced and edited from CESVA equipment (automatic) or other makes (manually).
- In the third area assessments of workers and work stations are carried out (with or without hearing protectors). Noise exposure levels and uncertainties are calculated and saved in the project.
In addition the application allows this data to be copied and pasted into text editors (Word®, Excel®,...)
- The report is generated in the fourth area.
- Finally, the fifth area enables a plan of action to be created, to reduce workers' level of exposure to noise.

All information of the company, workers, strategies, measurements and assessments is saved in the project. Thus the company's record of noise prevention is saved.



1) DEFINE THE COMPANY'S STRUCTURE

How many workers are there? Which **strategy** is associated with each worker? Are there any **Homogeneous Exposure Groups**? The answers to these questions will enable the structure of the company to be created from a noise perspective. The **structure** is set the first time and is then saved in the **project**. It can subsequently be extended or modified. Having the structure of the company and the measurement strategies (Tasks, Job or Working Day) defined simplifies the planning of the measurements and the process of assessment.

2) INPUT THE MEASUREMENT DATA

After the measurements have been carried out they are incorporated into the project, assigned to the corresponding worker.

When SEM* type files are imported they can be edited, eliminating sections which represent false increases in the measurement, such as: knocks to the microphone, wind, etc.

Measurements carried out with other makes of equipment can also be introduced manually.

(*)DC112 files or from dosimeter modules of the SC310, SC160 SC-30

3) ASSESS WORKERS AND WORK STATIONS

CRM calculates the following results:

- Noise levels **with and without PPE**: $L_{Aeq,d}$ (L_{EX8h}) and L_{Cpeak}
- Uncertainties**

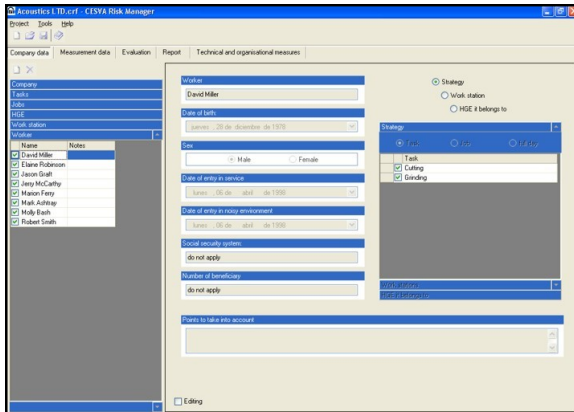
CRM has filters that enable measurements of the project to be selected and assessed according to the regulation or decree chosen. The hearing protectors and duration of use can also be introduced.

CESVA Risk Manager enables the assessment to be saved, creating a **history of assessments** carried out.

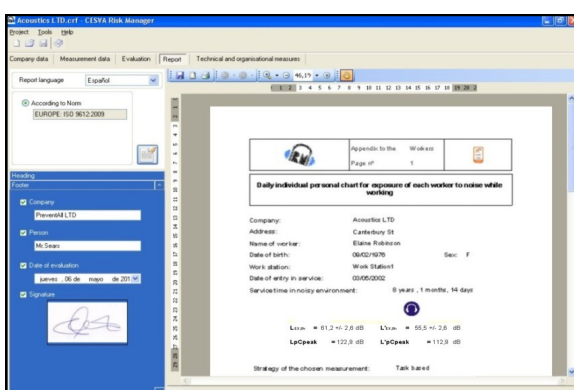
4) OBTAIN THE NOISE EXPOSURE REPORT

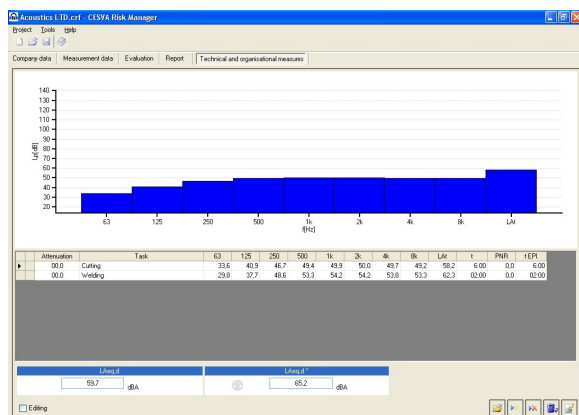
Is the application required to automatically create the **regulatory report**? Simply select the language and assessment.

CRM **personalises the report** with the company's logo, the accreditation symbol and the signature of the technician. It can then be **printed** or **saved** in various formats: .pdf, .emf, .jpg, .bmp, etc.



Task	Measurements	LAI	LCI	L	LPeak
Cutting	Cutting 2	97.7	66.1	11	112.2
Cutting	Cutting 1	59.9	66.5	11	112.2
Welding	Welding 1	61.4	66.3	11	112.2
Welding	Welding 2	62.8	67.4	11	112.2
Welding	Welding 3	62.5	66.9	11	112.2





5) TECHNICAL AND ORGANISATIONAL MEASURES + TRAINING AND INFORMATION

Finally, **CESVA Risk manager** has a practical, effective tool to simulate new scenarios, applying **technical (levels) and organisational (time) measures** thus facilitating the decision-making process to reduce noise exposure to within the permitted levels.

CRM enables levels to be checked instantly, before and after the measures are applied.

In addition it has documents for **training and information** about risks arising from exposure to noise, and for **signposting** noisy areas.

Simply by following the intuitive sequence proposed by **CESVA Risk Manager**, regulations and decrees for the protection of workers from risks arising from exposure to noise can be complied with completely.

Forget about tedious uncertainty calculations once and for all! Let **CRM** do them.

Regulations

- ISO 9612: 2009 Determination of occupational noise exposure. Engineering method
- ISO 4869-2: 1994 Hearing protectors. Estimation of effective A-weighted sound pressure levels when hearing protectors are worn
- Directive 2003/10/CE
- SPAIN: Guía Técnica del Real Decreto 286 / 2006
- PORTUGAL: Decreto Lei 182 / 2006
- FRANCE: NF S31-084 (2002)

Operating System

Works under the following operating systems:

- Windows XP / Vista / 7 / 8 / 10

Minimum PC requisites

- Processor speed: 1 GHz (1,5 GHz recommended)
- RAM Memory: 500 MB (1 GB recommended)
- Disc space 160 MB + 70 MB
- Monitor Resolution: 800 × 600, 256 colours
- Input devices: Mouse or compatible
- USB port

Other requisites

- Microsoft Internet Explorer 5.01 or superior
- Microsoft .NET Framework 2.0

The characteristics, technical specifications and accessories may be changed without prior notice