



# ***HEALTHY WORKPLACES SUMMIT 2011***

## Workshop 1

## “Safe Maintenance and Risk Assessment”

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European Agency  
for Safety and Health  
at Work



Healthy Workplaces



PL2011.eu

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## Introduction

- **Risk assessment for maintenance is especially challenging and requires particular attention**
- **It is important:**
  - For both client and services provider to be aware of all relevant safety aspects
  - To include safety at the conception/design stage
  - To include safety aspects at the negotiation stage

## Introduction

- **Various work environments may exist**
  - Workers carrying out varying tasks on a certain site, certain tasks on varying sites or in changing working environments
  - Varying situations including routine maintenance, unscheduled repairs or scheduled shutdowns
- **A good RA should take into account all these aspects**
- **Various organisations have developed special tools to deal with these challenges**

# Risks to maintenance workers during plant shutdowns – Yngve Malmén

- **Finnish study on chemical safety during process plant shutdowns – main findings:**
  - Work done during a shutdown should be executed so that the safety level does not decrease
  - Risk analyses should focus on the tasks of own personnel as well as tasks carried out by external contractors.
  - Everyone involved should be trained before the shutdown
  - If safety related equipment need to be turned off, alternative solutions to ensure safety must be applied.
  - Control rooms should not be left unmanned during the shutdown.

## **Synergie/PARI Maintenance, a RA tool for maintenance – Christian Jacquel**

- **Synergie is an educational program for learners in maintenance area**
- **3 party partnership:**
  - Educational establishments
  - Professional organisations and associations
  - Prevention network of French Social Security
- **A tool consisting of a risk analysis software based on ISO 12100 Standard**

## **Synergie/PARI Maintenance, a RA tool for maintenance – Christian Jacquel**

- **PARI Maintenance software is an analytical tool that allows the maintenance worker to:**
  - define the maintenance working situation and its limits
  - identify the hazards and the dangerous situations within the working situation
  - describe the risks associated with each identified hazard
  - Define the measures to eliminate the hazards or to reduce the related risks

## OiRA and maintenance – Lorenzo Munar

- **OiRA project aims to ensure that the EU's micro and small enterprises undertake more and better quality RAs**
- **Maintenance modules will be developed to be incorporated into the OiRA tools and will:**
  - Help companies to deal with maintenance in a more systematic/structured way
  - Convey the messages:
    - Maintenance is essential to keep the working environment safe and reliable
    - Maintenance itself is a high-risk activity



## Discussion points/recommendations

- **General RA software must apply to the different fields of human activity**
- **Safety education and life-long training should be taken into account in RA software**
- **Specific provisions in RA software are to be applied to inexperienced workers**
- **RA should be included in an overall business approach**
- **A key element is the provision of preventive measures**