



Ordine  
degli Ingegneri  
Provincia di Pistoia



UNIVERSITÀ  
DEGLI STUDI  
FIRENZE

Dipartimento di Medicina Sperimentale e Clinica  
Sezione «Health services research»  
Cattedra di Medicina del lavoro

# OCCUPATIONAL HYGIENE

**ADVANCED COURSE**  
for Experts in Occupational Health and Safety

**20 – 24 APRIL 2015**

**UNISER – Via S. Pertini, 358 – Pistoia (ITALY)**

*The course is a part of the activities of the OSHNET SCHOOL  
for High Certified Education in Occupational and Environmental Safety and Health*

## **CREDITS GIVEN**

*40 credits for the International ICFP Certification Exam*

*40 credits for RSPP and ASPP in the Italian  
permanent educational system for Occupational Health and Safety*

*40 CFP (Professional Credits for Engineers)  
38 CFP (Professional Credit for Doctors in Chemistry)*

*ECM Credits required for Doctors in Medicine, Physics, Chemistry and Experts in Prevention*

**SCIENTIFIC COLLABORATION AND SUPPORT IN ORGANIZATION  
BY**



**VIE EN.RO.SE.**  
Ingegneria S.r.l.



# PROGRAMME

developed by OSHNET SCHOOL Scientific Committee

## Monday 20 April 2015

09.00 – 11.00

### Introduction

**Sergio Luzzi / Yucel Demiral**

General Principles of Occupational Hygiene. Role of the Occupational Hygienist and deontologic code, International and National Legislation, Standards, Certification of competence (ICFP).

11.00 – 13.00

### Occupational Medicine

**Giulio Arcangeli**

Epidemiology: indexes (mortality, morbidity, injuries), Cancerogenic Agents, Toxicology, Biological Monitoring, Sanitary Control, Work related illness.

14.00 – 16.00

### Physical Agents: Noise

**Sergio Luzzi**

Basis of Acoustics, System and methods for noise measurements, effects of noise on workers, dosimetry Noise exposure assessment, Personal protection and reduction plans.

16.00 – 18.00

### Physical Agents: Vibrations

**Sergio Luzzi**

Basis of Vibrations System and methods for measurements, Effects of Hand Arm Vibrations and whole Body Vibrations on workers, Exposure assessment, Personal protection and reduction plans.

## Tuesday 21 April 2015

09.00 - 11.00

### Physical Agents: Microclimate, Illumination, VDT

**Riccardo Fusi**

Microclimate: methods and system of measurement  
Thermophysiology: thermal comfort, stress from heat or cold  
Illumination, VDT.

11.00 - 13.00

### Physical Agents: Non ionizing Radiation

**Arzu Firlarer**

Electromagnetic fields: Basis and definitions, health effects, measurements, prevention and protection

14.00 - 16.00

### Physical Agents: Ionizing Radiation

**Arzu Firlarer**

Ionizing radiation: Basis and definitions of radio-protection, health effects, measurements, prevention and protection

16.00 - 18.00

### Physical Agents: Optical Radiation

**Laura Filosa**

Optical Radiation: Basis and definitions, health effects, measurements, prevention and protection, Blue light effects.



## Wednesday 22 April 2015

09.00 - 11.00

### Chemical Agents

**Andrea Cattaneo**

Risk Analysis and risk management. Introduction to risk characterization, elements of control banding and REACH approach to safe use of chemicals

11.00 - 13.00

### Chemical Agents: Dust, Silica

**Andrea Cattaneo**

Dust and non organic aerosol from metal, wood, silica  
Substance classification and labelling, weight criteria.

14.00 - 16.00

### Chemical Agents: gas and vapour

**Andrea Cattaneo**

Organic Substances characterization, methods for sampling and analysis  
Quality control, TLV, Risk assessment.

16.00 - 18.00

### Biological Agents

**Ayse Ozturk**

Biological Agents classification, biological risk management and control.  
Sampling and analysis of biological agents, TLV and guidelines.

## Thursday 23 April 2015

09.00 - 11.00

### Ergonomics

**Giulio Arcangeli**

Ergonomics in workplaces, biomechanic overload, Postural assessment and of static work, limitation of idoneity

11.00 - 13.00

### Psycosocial Risks

**Yucel Demiral**

Definition of psychosocial risks. Models and measurements. Assessment and prevention.

14.00 - 16.00

### Control Strategy

**Domenico M. Cavallo**

Workplaces and production cycles, Pollutant in workplaces, organization of a survey, control methodologies.

16.00 - 18.00

### Indoor Air Quality

**Domenico M. Cavallo**

Indoor air quality test and assesment, methology for risk assessment and standard for air quality

## Friday 24 April 2015

09.00 – 13.00 , 14.00-16.00

### Practical Lessons and Training – Technical Visit

**Manfredi Montalti / Stefano Dugheri**

16.00 – 18.00

### Final Exam



## UNDER THE PATRONAGE OF



## REQUESTED PATRONAGES



## REGISTRATION

Please fill the **REGISTRATION FORM** and pay the registration fee of **€ 600,00** before 31/03/2015, via bank transfer to **VIE EN.RO.SE. Ingegneria**, IBAN: IT25N0200802847000041163235, BIC SWIFT: **UNCRITM1512**, specifying as payment reason **“COURSE OSHNET SCHOOL PISTOIA – NAME AND SURNAME”**. Please send the filled form and copy of payment to **elena.scatragli@vienrose.it**, specifying in object: **“COURSE OSHNET SCHOOL PISTOIA – NAME AND SURNAME”**.  
Alternatively, please contact the local Director and local office of OSHNET SCHOOL of your country.

## INFORMATION

Scientific Director of Course – Sergio Luzzi: [sergio.luzzi@vienrose.it](mailto:sergio.luzzi@vienrose.it)

Scientific and Administrative Secretariat - Elena Scatragli: [elena.scatragli@vienrose.it](mailto:elena.scatragli@vienrose.it)

## APPLICATION FORM

| <b>OSHNET SCHOOL - COURSE OCCUPATIONAL HYGIENE – PISTOIA 20-24 APRIL 2015</b> |  |
|---|--|
| <b>Surname and Name</b>   |  |
| <b>Place and Date of Birth</b>  |  |
| <b>Address</b>  |  |
| <b>Telephone, email</b>   |  |
| <b>Degree, Diploma</b>  |  |
| <b>Invoice data</b>   |  |