
COURSE: Safety in Chemical Laboratories

ACADEMIC YEAR: **2018-2019**

TYPE OF EDUCATIONAL ACTIVITY: Other

TEACHER: Prof. Maria Funicello

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Language: **Italian**

ECTS: (lessons e
tutorials/practice)
1n. of hours: 8 (theoretical
lessons)Campus: **Potenza**
Dept./School: **Dipartimento di
Scienze**
Program: **Chemistry (L27)**Semester:
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EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The course aims to indicate the principal risks to which is subject who works in a chemical laboratory. Furthermore the aim is to provide students a basic knowledge about safety, indicate the main rules of good behaviour and recognize the signs of prohibition, obligation, fire and emergency. The course aims also to show the main sources of information and the most important regulations on fire safety and handling toxic-harmful substances, and finally to know REACH

PRE-REQUIREMENTSNone

SYLLABUS

Definition of work environment, of quality and security of employment. The most common types of accidents and their causes in some workplaces and in everyday life. Definition of risk and danger. Fire triangle. Definition of the point and area of flammability and self-ignition of the most common solvents. Classification of types of fires and main rules of conduct in case of fire. Extinguishing media and their appropriate use. Relevant routes of exposure and type of damages. Classification of dangerous substances. Classification of carcinogens. Exposure assessment and most common indexes. Hazard and precautionary statements, information in the safety data sheets and on the labels. PPE, choice of gloves and main rules of good behavior in the chemical laboratory. Signals at the workplace: warning, prohibition, obligation, emergency and fire. L.626 and D.M. 81. REACH

TEACHING METHODSTheoretical lessons

EVALUATION METHODSValidation

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

J. A. Young "Improving Safety in the Chemical Laboratory" Ed. John Wiley & Sons

R. Fornasier "Guida alla Sicurezza nei Laboratori Chimici" Ed. Libreria Cortina, Padova

INTERACTION WITH STUDENTSContact by mail and receiving by appointment on every day.

EXAMINATION SESSIONS (FORECAST)¹20/2/2019; 20/3/2019; 14/5/2019; 19/6/2019; 16/7/2019; 15/10/2019; 13/12/2019

SEMINARS BY EXTERNAL EXPERTS xYES NO

FURTHER INFORMATION

¹Subject to possible changes: check the web site of the Teacher or the Department/School for updates.

