

The BEDOX project's goal is to provide a detailed analysis of the school practical chemistry education's status quo, i.e. students' and teachers' in- and out-of-school experimental activities. The analysis focuses on both valid legislation and adherence to occupational safety regulations, namely in school labs. At the same time, a detailed evaluation of the most commonly performed working processes is being done. They are reproduced, documented and subsequently adjusted so they fit the upcoming ČSN 01 8003 norm, and at the same time keeping their educational purpose. The project's outcome is an on-line database of verified laboratory instructions for chemistry experiments, including lab practice demonstration videos, exemplary school lab regulations, safety equipment and other material for both in- and out-of-school experimental activities.



The planned project outcomes intend to become a relevant source supporting safe and correct school lab practice, which will be widely usable by chemistry teachers, out-of-school chemical-related activity supervisors and, last but not least chemistry pre- and in-service teacher trainers who focus on this area.

PHASES AND METHODS:

1. Analysis of documents containing regulations with respect to in- and out-of-school experimental activities in Czechia.
2. A questionnaire survey among chemistry teachers in the fields of education where chemistry is a general education school subject.
3. School chemistry experiment selection and reproduction, and creation of an on-line database e-BEDOX containing exemplary instructions in the form of video spots.
4. Develop methodical materials for in- and out-of-school experiments.



SAFE PROCEDURE FOR CHEMICAL COMPOUNDS' DISPOSAL

Safe procedure is regarded as a way of disposing of chemical compounds or mixtures which, when followed precisely, does not permit the possibility of undesirable effects on the life or health of a person carrying out this procedure or persons potentially endangered by such a procedure.

DIDACTICALLY-PROVEN PROCEDURES FOR CHEMISTRY SCHOOL EXPERIMENT CONDUCT

Experiments considered didactically-proven are those which facilitate a person conducting or person(s) watching it gain or deepen their required knowledge, skills, attitudes, eventually experience in agreement with educational goal(s) relating to a particular topic.

