



STEINBEIS ADVANCED RISK TECHNOLOGIES



Deutsche Investitions- und Entwicklungsgesellschaft mbH

## **SafeChina – Promoting the EU and German standards and practices of Environmental Protection and Industrial Safety in China**

Chinese reference: “The German-Chinese cooperation Program in Training for SafeChina – Environmental Protection and Industrial Safety” (TPSC)

[www.safechina.risk-technologies.com](http://www.safechina.risk-technologies.com)

### **Summary**

The project aims to build a sustainable education service in China, which shall offer engineers and relevant professions to learn about the EU HSE practices and regulation and qualify as Environmental- and Safety engineers according to EU criteria, guidelines and practice.

This project will benefit from the experiences from the previous successfully concluded DEG-project ESPRIT [www.esprit.risk-technologies.com](http://www.esprit.risk-technologies.com). The contents and procedures will be similar but adapted to the specific local conditions in China. It is therefore expected to execute the working packages described below more efficiently and with reduced costs.

After a first systematic analysis of company specific risks, control strategies and – mechanisms shall be provided enabling the participants to react adequately on company specific health-, safety- and environmental risks according to EU standards. Within the framework of this project, curricula of the specific courses will be elaborated, and the educational “infrastructure” created in Germany and China. The educational structure in China will be organized by the partners Beijing Municipal Institute of Labor Protection BMILP, and Beijing Normal University, as the main Steinbeis strategic partners in China. Both Steinbeis and BMILP are members of the EU-VRI (European Virtual Institute for Integrated Risk Management, [www.eu-vri.eu](http://www.eu-vri.eu)), which ensures good collaboration framework. There, further educational measures for the improvement of industrial safety and environmental protection shall be continued and further developed

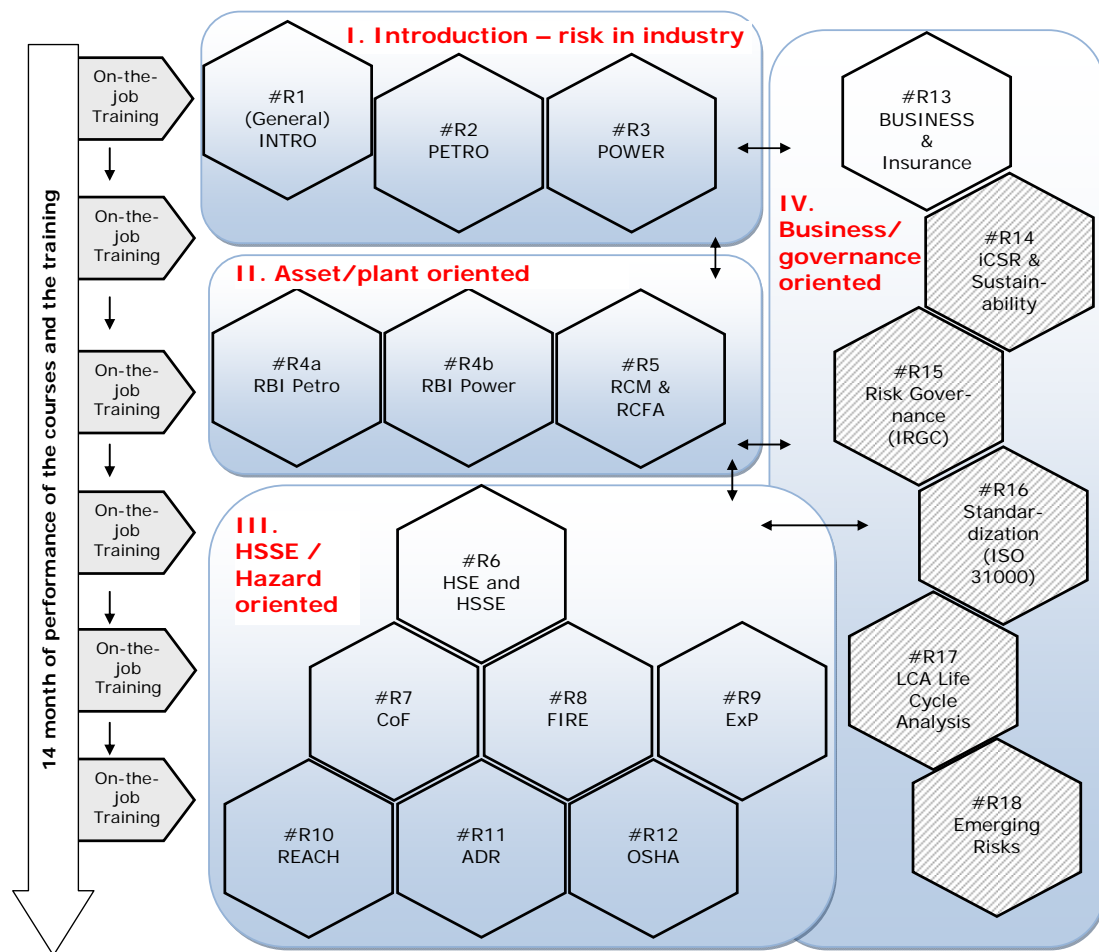
The core of the project SafeChina are:

- a) Set of Courses (Figure 1) in the area of industrial safety
- b) HSE certifications scheme according to the EU requirements, and
- c) system of on-the-job training in EU/Germany and China

A minimum of 10 different 5-days-courses will be offered, containing different focuses in the areas of environmental management, risk analysis, risk management. These courses shall be executed during the project period depending on the demand. They shall be carried out partially in China and in Germany and will be combined with the on-job-training in Germany and possibly other EU countries.

The target is to obtain a minimum of 200 participants, of which about 100 HSE (Health, Safety and Environment) certificates will result. The certificates will be issued based on an exam at the Steinbeis University, Berlin, according to the certification scheme developed in DEG project ESPRIT. Furthermore it is targeted to train 10 trainers, preferably the best students among the participants, which shall be selected and further qualified through a special support. During the PPP project period the participation for the students is free of charge.

Besides the theoretical education, the students will be prepared for the daily operational practice in the company through a training-on-the-job in the EU companies. Costs for travel and assistance for the students during their stay will be covered by the companies. The competences obtained during the courses will be applied during their practice in the Chinese companies.



**Figure 1: Proposed contents of the curriculum for SafeChina**

The execution of the trainings and qualification will be done in the cooperation of Steinbeis University Berlin (SHB – Steinbeis-Transfer-Institute Advanced Risk Technologies) together with Beijing Municipal Institute of Labor Protection ([www.bmilp.com](http://www.bmilp.com)), DEKRA Akademie ([www.dekra-akademie.de](http://www.dekra-akademie.de)) and the Beijing Normal University ([www.bnu.edu.cn](http://www.bnu.edu.cn)). Relevant specialists will be provided. The required educational structure will be established by Beijing Municipal Institute of Labor Protection, and the Beijing Normal University in China. Additional companies will be allowed to participate in the project. There, the Chinese experts will test and evaluate their newly received special know-how.

The project shall be structured in Work Packages:

- WP 1. Analysis of the current situation in the area of HSE in China
- WP 2. Preparation of course materials/handouts customized for the Chinese needs and situation
- WP 3. Preparation of the educational framework in Germany
- WP 4. Preparation of the educational framework in China
- WP 5. Performing of the courses and education
- WP 6. Certification of trainees in China and in Germany
- WP 7. Performing of the on-the-job-training
- WP 8. Evaluation of results and project impacts
- WP 9. Project Management

A set of measurable success indicators will be established and the satisfaction of the stakeholders monitored continuously. The PPP-project is designed for the execution and finalization within 24 months and has started on November 1, 2010.