DEVELOPMENT OF AN EMERGENCY MANAGEMENT COURSE INTEGRATED IN AN ADVANCED MASTER EDUCATIONAL PROGRAMME

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Abstract

Despite the efforts industry invests in preventing process safety incidents, adequate emergency management is still an important aspect in a process safety management system. Development of a course covering emergency management in the process industry is a logical evolution in the state of the art curriculum building of an Advanced Master Programme on Safety Engineering. The course has to tackle organizational as well as technical aspects of emergency management. The difficulty that goes along with this topic is the number of involved parties in case of incident and the required action and knowledge in function of the escalation of the incident. Academic-Industry collaboration is necessary for several reasons. Emergency management in the major hazard industry resumes to three individual or combined scenarios namely a toxic incident, an explosion, or a fire. Experienced industry workers execute the quality assurance based on the evaluation of each part of the course complemented by an evaluation of the Advanced Master students. Defining the content of the 3 ETCS course embedded in an advanced master and evaluating the quality is the content of this article as well as describing initiatives "essenscia" (Belgian Federation for Chemistry and Life Sciences Industries) supports related to specific aspects of emergency management to increase effectiveness of the field action and the education.

Keywords: emergency management, education, industry, university, collaboration.