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# **Risk assessment of cryogenic installations – implementation, applicability of methodologies and challenges at CERN**

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For the safe design of a cryogenic installation, it is essential to carry out a comprehensive hazard identification and risk estimate in order to put in place the necessary control measures for an adequate risk mitigation.

According to CERN Safety Rules, it is mandatory that the organic unit owning a cryogenic facility conducts and documents a risk assessment. This requirement is also given by the European Directive 2014/68/EU to manufacturers of pressure equipment.

During the talk, some of the challenges CERN faces in the development of risk assessments across the broad array of activities involving cryogenic equipment in the organization will be discussed. Challenges such as the choice of the best-suited risk assessment methodology based on the features and complexity of the installation/activities, the efforts to develop tools to facilitate hazard identification, risk analysis and definition of related measures to protect the health and safety of workers, such as streamlined guidelines, forms and checklists. Finally some examples of risk assessments following different methodologies, tailored to cryogenic installations, will be presented and discussed.

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