

# 3<sup>rd</sup> International Conference and Exhibition on Occupational Health & Safety

June 24-25, 2014 Valencia Conference Centre, Valencia, Spain

## Assessment and risk management hazards by failure modes and effect analysis (FMEA) method in Iran steel complex

Mehrzaad Ebrahemzadih<sup>1</sup>, GH Halvani<sup>2</sup> and Behzad Shahmoradi<sup>1</sup>

<sup>1</sup>Kurdistan University of Medical Sciences, Iran

<sup>2</sup>Shahid Sadoghi University of Medical Sciences, Iran

**Background:** Failure mode and effect analysis (FMEA) is a widely used quality improvement and risk assessment tool in manufacturing. The aim of this study is to assessment of potential hazards by failure modes and effect analysis (FMEA) method in yazd steel complex.

**Methods:** Across - sectional study, using the worksheet(FMEA), which are derived from the standard(MIL\_STD - 882). Failure modes and the various components and effects as using quantitative score to the risk priority (RPN) were obtained. Activities related to each from different parts of yazd steel complex by using the scores risk priority (RPN) was evaluated, then the results obtained by using SPSS software was evaluated and analyzed.

**Results:** In the study was conducted max and min number of priority high risk of before corrective actions related to the steel maker lime and environmental health with the RPN (490 and 28) and then after corrective actions to there levant sections of the casting of in gots and roll styles with RPN (168, 20).

**Conclusions:** The results show that the FMEA technique can identify a higher number of hazards than any other technique. The important point is that selection of an appropriate technique plays an important role in identifying a higher number of hazards.

Emhrzad@gmail.com