

## **ABSTRACT**

*PT. Aneka Adhilogam Karya is a company engaged in metal casting. In the production process, there are several production departments, one of them's the Melting Department. The Melting Department has several processes such as the preparation of raw materials, the smelting process with an induction furnace, and the casting process. Based on initial observations and assessments, the work activities at the Melting Department are still low in implementing the OHS system. There is a high potential for danger that can cause losses for the company. The purpose of this study was to design an OHS assessment mechanism in the company's Melting Department based on the OHS standards in PP No. 50 of 2012. The methodology of this research starts from the actual work environment data and the results of conformity assessments based on the criteria of PP No. 50 of 2012. Improvements in the OHS System start from the implementation of priority aspects. which is the design of the assessment mechanism for the Melting department. Management requirements have been identified and analyzed to create a design concept. The design is about how to make an OHS assessment instrument in the Melting Line which includes assessment provisions, assessment standards, mapping, and other information related to assessment activities. The validation results show that the assessment design has met the needs of management.*

***Keyword: OHS, Safety, Melting, Assessment, Plan-Do-Check-Action.***