

## ABSTRACT

Odelia Hijab MSME is a fashion industry located in Sumedang Regency, West Java which focuses on the production of hijabs with various variations and colors such as square, pashmina and voal hijabs. While doing business, of course this company also has potential risks that cause problems, one of which is in the production department. In the last six months, the product output at Odelia Hijab MSME has exceeded the product defect limit on the quality target, namely 10% for fabric and 6% for products and is less than the production target of 1500 pieces per day. Based on the problems that occurred, it is known that Odelia Hijab MSME does not yet know the main cause of this risk incident and has not yet determined the appropriate handling action.

The aim of this research is to design a risk mitigation strategy using the House of Risk (HOR) method to fulfill the requirements of clause 6.1 of ISO 9001:2015. The House of Risk (HOR) method is a risk analysis method to help identify risks and determine risk priorities in the production division at Odelia Hijab MSME.

In identifying potential risks, 16 risk events and 13 risk causes were found in the production division at Odelia Hijab MSME. The results obtained in the HOR 1 phase were the selection of three priority causes of risk. Furthermore, the results obtained in the HOR 2 phase were that 10 risk mitigations were proposed based on priority causes of risk and produced the highest risk mitigation strategy, namely pattern cutting process work instructions for operators.

The design results obtained in the research are proposed work instructions for the pattern cutting process for operators. By designing work instructions, it is hoped that it will help operators in pattern cutting work, thereby helping to minimize errors that cause risks to the production division.

**Keywords - Risk Mitigation, Risk Analysis, ISO 9001:2015, House of Risk (HOR)**