

ABSTRACT
IMPLEMENTED OF ANALYTICAL HIERARCHY PROCESS (AHP)
METHOD IN DETERMINATION OF QUALITY IMPROVING
ALTERNATIVE IN ISOLATION COLOURING PROCESS

By:
Ayu Nova Rahmawati
NIM : 133010189

The quality product of electric cable produced by PT. Electric Wire Indonesia (EWINDO) Plant 1 Bandung can be accepted by consumers, but there was obstacles where there are a less well of quality of product attributes on the process of isolation colouring or staining that does not conform to the standard late determined. The problem resulting from nonstandard color having number of defect 109.523 meters. This research attempt to take a decision to the factors that influence of the increasing electric cable product quality to the process of isolation colouring as well as provide solutions to the problem

In the making a decision required right methods that the decisions maker can make the right decisions too. Methods used in decision-making to the factors that influence the improvement quality of the method Analytical Hierarchy Process (AHP). AHP are based on a model the hierarchy that was made simultaneously with the decision-makers in order to provide solution through value of the highest weights from each of the criteria and the alternative is presented.

The AHP method can provide an assessment comparison with the questionnaires distributed to the three respondents who are expert in his work. From the data questionnaire then processed through manual calculation as well as by with the help software Expert Choice Version 9.0 for Windows to get accurate results. The result of this research indicated that the criteria having highest weight was precision the operators with value of 0,252 and the alternative that have highest weight was improvement the SOP machines extruder with value of 0,385. So, the process of isolation colouring on the electric cable product can be improved by precision an operators and carry out the procedures composed in SOP. The data processed by using software having results are no different far significant by manual calculation.

Keywords : AHP, isolation colouring, electric cables