

ABSTRACT

This research is conducted to improve the production process and reduce operation cost via implementation of an EDI systems and barcode systems. EDI and barcode systems are popular in manufacturing which is applied in various fields. The systems could help a firm improve the production process, reduce operation cost and improve accuracy and efficiency.

In paper all relevant data such as current HDDs information, logistics information, demands, manpower cost and new systems cost are collected and analyzed for developing a new production process to help improve existing process. Excel sheets are created to control the whole investment such as calculated NPV, IRR and Payback Period to check if the investment is valuable. All steps for how to implement EDI system.

After analyzing are described current process mapping and applying the situation, Excel sheets cost analysis is conducted. The results of in EDI and barcode systems are compared with the previous process flow with the purpose of indicating improvement. The results are not only solving the existing issues but also help improve the production process and reduce operation cost, replace manual operations in with automatic operations. Make communication easier and reliability, and response quick to deal with urgent issues. After implementation of EDI and barcode systems the company can reduce costs for industries; improve competitive position; closer relationship with trading partners and ability to broaden trading horizons. These are all the benefits that have significance for the company after implementation.