

## ABSTRACT

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*This final project produces application that can determine the number of production per each production, total cost for each production period, production frequency and accounting records for production cost. The final project is designed for the needs of small and medium manufacturing industries especially manufacturing. According to the Central Bureau of Statistics in 2014, the competition of small-scale industry productions reached 129.93 percent, while for medium-sized enterprises, it reached 120.36 percent. In industrial enterprises especially manufacturing the main process is the production. To maintain the availability of raw materials for the production process need good production control system. Production control is carried out using Economic Production Quantity (EPQ) method, as well as determining the optimal number of cycles and the amount of production that is economical to minimize the total cost of production or Total Cost (TC). The result of production control calculation using EPQ method, the company will know how much quantity of product produced with optimal cycle with economical volume production level so that it know the amount of time to be reproduced. This application is built using object-oriented method, using PHP CodeIgniter 3.1.0 with MySQL database. This application is used by production sections in small and medium industries. Application is tested by comparing manual and application testing have produced the same output. Likewise with blackbox testing that application functionality can run 100%.*

Key Words : EPQ , Production , PHP CodeIgniter 3.1.0