ABSTRACT

The application of PBET (Production Based Education and Training) learning system in manufacture field introduces holistic-educative basic concept where the place of education and training becomes an integral unity as a system. One of success benchmarks and factor which determine university student to go the higher level or students to be dropped out is the burden on student practice assessments. Therefore, this research will improve the system by analyzing and arranging the information system of manufacture professional training to help instructor in controlling and monitoring the achievement of performance value of student manufacture practice result. The design planning for the manufacture practice builds experiment method by utilizing RFID (Radio Frequency Identification) which is used for the process of presence and also time calculation from the achievement toward estimation time which becomes one of components in determination of practice assessment. The development of this information system uses FAST (Framework for Application of System Thinking) method. The basic analysis uses framework of PIECES (Performance, Information, Economic, Control, and Efficiency, Service) that is a method to know the problem and to do continuous improvement in order to gain better result. The result of observation and interview were done by method of content analysis, descriptive analysis by using assessment of System Usabilitas Scale (SUS). The result of data analysis showed at 72.5. The SUS score is worth more than 70 above thr average so that it falls into the acceptable category and in a good rating. This means that there was an increasing result. Due to the improvement of the information quality, the new system is reasonable to be applied.

Key words: estimation time, learning system, manufacture, practise assessment, RFID, Usability.