

## ABSTRACT

*Decision Support System is a computer-based system that used to support the decisions of an organization. PT Dirgantara Indonesia (Persero) is an company engaged in the aircraft industry. In its activities, PT Dirgantara Indonesia through Field of Machinery and Laboratory that contained in the Maintenance Department must guarantee the operations sustainability of Directorate of the production. But in fact when performing operational activities, often the work that done by the employees are not match with the employee skills and background. Also the dependence of the supervisor when perform the job assignment to several employees. The absence of an competence evaluation of employees caused difficulty in determining the assignment by the supervisor. It is caused because there was no employee assesment in the field of machinery and laboratory and this will bring the decision taken by the supervisor is subjective.*

*Waterfall method used for the development system. This system is a web based PHP using the CodeIgniter as the framework and MySQL as a database in order to facilitate further development toward the system. In order to test the system blackbox methods and user acceptance test are used.*

*The results of this research is a system that has a function to support decisions in the field of Machinery and Laboratory. The main function of this system is the system can support the decision of the supervisor to determine employee to be assigned and also help to do a calculation of the assessment. There are also features that relate to human resource data such as employee data, organizational structure and job list. The test results show that the system functions that have been made are in accordance with the expectations of the user. Using profile matching for calculate the assessment gap result and using Hungarian method for assign the employee can be used for further research .*

*Key Words: Decision Support System (DSS), PT Dirgantara Indonesia, Assignment, Assessment.*