

ABSTRAK

Parade H Sigalingging. *Hubungan Penguasaan Teori Permesinan dan Kelengkapan Fasilitas Kerja dengan Prestasi Praktik Permesinan Siswa Kelas XI Program Keahlian Teknik Permesinan di SMK Negeri 1 Percut Sei Tuan*. Skripsi. Fakultas Teknik Universitas Negeri Medan 2019.

Penelitian ini bertujuan untuk mengetahui besarnya Hubungan Penguasaan Teori Permesinan dan Kelengkapan Fasilitas Kerja secara bersama-sama dengan Prestasi Praktik Permesinan siswa Kelas XI Program Keahlian Teknik Permesinan SMK Negeri 1 Percut Sei Tuan. Metode penelitian bersifat deskriptif kuantitatif korelasional. Populasi dalam penelitian adalah siswa kelas XI kompetensi keahlian Teknik Permesinan SMK Negeri 1 Percut Sei Tuan berjumlah 50 orang. Dalam hal ini, sampel penelitian adalah 50 orang siswa kelas XI yang ditentukan dengan menggunakan Teknik sampling jenuh, teknik penentuan sampel semua anggota populasi digunakan sebagai sampel.

Data penelitian ini dikumpulkan dengan angket, tes objektif dan dokumentasi, dimana data penelitian yang dijangkau dengan angket dan tes objektif adalah variabel Penguasaan Teori Permesinan dan Kelengkapan Fasilitas Kerja. Sedangkan untuk variabel Prestasi Praktik Permesinan dijangkau dengan menggunakan metode Dokumentasi. Jumlah instrumen angket Penguasaan Teori Permesinan sebanyak 30 soal dan 25 soal yang valid dengan reliabilitas 0,892 tergolong sangat tinggi. Sedangkan jumlah instrumen angket Kelengkapan Fasilitas Kerja sebanyak 30 soal dan 26 soal yang valid dengan reliabilitas 0,847 dan tergolong sangat tinggi. Sedangkan Variabel Prestasi Praktik Permesinan Menggunakan Metode Dokumentasi dan tergolong kriteria tinggi.

Hasil analisis data menunjukkan bahwa hasil analisis regresi sebagai berikut : $F_h = 23,76$ harga $F_t = 3,18$ pada taraf kesalahan 5%, sehingga $F_h > F_t$ ($23,76 \geq 3,18$). Bahwa persamaan regresi $Y = 1,25 + 0,600 X_1 + 0,352 X_2$ dapat dipertanggungjawabkan untuk menarik kesimpulan mengenai hubungan-hubungan antara Penguasaan Teori Permesinan dan Kelengkapan Fasilitas Kerja secara bersama-sama terhadap Prestasi Praktik Permesinan. Dengan demikian hipotesis terdapat hubungan yang positif dan berarti antara Penguasaan Teori Permesinan dan Kelengkapan Fasilitas Kerja secara bersama-sama terhadap Prestasi Praktik Permesinan dari siswa Kelas XI SMK N 1 Percut Sei Tuan dapat diterima sebesar $r = 0,665$, menggunakan rumus product moment pada taraf kesalahan 5%.

Kata Kunci : Penguasaan Teori Permesinan, Kelengkapan Fasilitas kerja, Prestasi Praktik Permesinan

ABSTRACT

Parade H Sigalingging. Mastery Relationship between Machining Theory and the Absence of Work Facilities with Mechanical Practice Achievement of Class XI Students of Mechanical Engineering Expertise Program in State Vocational High School 1 Percut Sei Tuan. Essay. Engineering Faculty of Medan State University 2019.

This study aims to determine the magnitude of the Engineering Theory Mastery Relationship and the Completeness of Work Facilities together with the Engineering Practice Achievement of Class XI Students of Mechanical Engineering Expertise Program at SMK Negeri 1 Percut Sei Tuan. The research method is descriptive quantitative correlational. The population in the study was a class XI student with a competence of 50 Mechanical Engineering skills at SMK Negeri 1 Percut Sei Tuan. In this case, the study sample was 50 students of class XI which were determined using saturated sampling techniques, the technique of determining the sample of all members of the population used as samples.

The data of this study were collected by questionnaires, objective tests and documentation, where the research data captured by questionnaires and objective tests were variables of Mastery Theory of Engineering and Completeness of Work Facilities. Whereas for Engineering Practice Achievement variables are captured using the Documentation method. The number of machining mastery theory questionnaires was 30 questions and 25 valid questions with reliability of 0.892 classified as very high. While the number of questionnaires for completeness of work facilities is 30 questions and 26 valid questions with reliability of 0.847 and classified as very high. While the Engineering Practice Achievement Variables Using Documentation Methods and classified as high criteria.

The results of data analysis show that the results of the regression analysis are as follows: $F_h = 23.76$ prices $F_t = 3.18$ at the error level of 5%, so $F_h > F_t$ ($23.76 \geq 3.18$). That the regression equation $Y = 1.25 + 0.600 X_1 + 0.352 X_2$ can be accounted for to draw conclusions regarding the relationships between the Mastery of the Engineering Theory and the Completeness of Kerja Facilities together on the Pestation of Engineering Practices. Thus the hypothesis there is a positive and meaningful relationship between Mastery of Engineering Theory and the Completeness of Work Facilities together towards Machining Practice Achievement of Class XI students of SMK N 1 Percut Sei Tuan can be accepted at $r = 0.665$, using product moment formula at the level of error 5 %.

Keywords : Mastery of Engineering Theory, Completeness of Work Facilities, Engineering Practice Achievement