

Analysis Results And Errors Process On The Welding Skill Vocational School Student Competition In Yogyakarta Special Province (DIY)

Putut Hargiyarto, Panji Winarno

Mechanical Engineering Education Department Faculty of Engineering
Yogyakarta State University
Kampus Karangmalang Yogyakarta 55161 Indonesia

Penelitian ini bertujuan untuk: (1) mengetahui hasil Welding Keterampilan Kejuruan Kompetisi Siswa Sekolah di Propinsi Daerah Istimewa Yogyakarta (DIY); (2) mengetahui kesalahan yang terjadi dalam proses pengelasan dalam kompetisi; (3) mengetahui saran yang dapat digunakan sebagai acuan dalam meningkatkan kompetensi siswa Program pengelasan.

Penelitian ini menggunakan pendekatan deskriptif kuantitatif. Metode pengumpulan data dengan mengukur kemampuan teori las, proses las dan penilaian hasil. Penelitian ini dilakukan di bengkel Fabrikasi Teknik Mesin FT UNY Jurusan Pendidikan. Populasi penelitian ini adalah semua peserta Welding Keterampilan Kejuruan Kompetisi Siswa Sekolah di Propinsi Daerah Istimewa Yogyakarta (DIY). Analisis data dengan analisis deskripti

Hasil penelitian ini diketahui bahwa: (1) rerata skor lomba las: teori = , proses = , hasil = dan total = . Hasil ini tidak memuaskan karena skor tahun 2013 lebih rendah daripada tahun 2012, atau terjadi penurunan. (2) kesalahan yang terjadi pada proses lomba pengelasan meliputi: kurangnya pengetahuan dan pemahaman dalam menentukan persyaratan pengelasan, set up mesin SMAW, mengatur arus pengelasan, kesadaran pentingnya aspek keselamatan dan kesehatan kerja, dan cacat las pada hasil pengelasan, (3) saran yang dapat digunakan sebagai acuan dalam meningkatkan kompetensi siswa Program pengelasan adalah : mengkaji secara mendalam teori yang belum diketahui, mencermati kesalahan yang terjadi lalu melakukan latihan yang intensif agar lebih terampil mengacu pada pedoman penilaian lomba.

Abstract

This study aims to: (1) determine the results of the Welding Skill Vocational School Student Competition in Yogyakarta Special Province (DIY); (2) determine the error that occurred in the welding process in the competition; (3) find out suggestions that can be used as a reference in enhancing student welding competence program.

This study used a descriptive quantitative approach. Methods of data collection by measuring the ability of the welding theory, welding process and outcome assessment. The research was carried out in the Fabrication workshop of Mechanical Engineering Education Department Faculty of Engineering Yogyakarta State University. The population of this study were all

participants of the Welding Skill Vocational School Student Competition in Yogyakarta Special Province (DIY). Analysis of data with descriptive analysis.

The results of this study found that: (1) the mean score welding competition: theory = 54.64, process = 93.14, results = 49.61, and total = 56.45. This result is not satisfactory because it has not reached a score of 75 and the score is lower in 2013 than in 2012, or a decline. (2) an error occurred in the process of welding competition that lead to low scores include: lack of knowledge and understanding in determining the requirements of welding, SMAW machine set up, adjust the welding current, the awareness of the importance of occupational health and safety aspects, and weld defects in welds; (3) suggestions that can be used as a reference in enhancing student competence welding program are: reviewing in depth the theory is not yet known, watch the error that occurred and intense exercise to be more skilled refers to the competition assessment guidelines.

Key words :

Welding Skill, Vocational School Student Competition