

Analysis of Ability Determination of Welding Parameters in Carbon Steel Welding Practice

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ABSTRACT

This study aimed to determine students' ability to practice carbon steel welding. Students' ability in welding is an essential factor in obtaining good welding results and as a provision in obtaining certification. This study uses a quantitative descriptive approach. The subjects in this study consisted of 40 students from the mechanical engineering education study program at the Faculty of Engineering, Yogyakarta State University. The research instrument uses a Likert scale with four alternative answers. Data acquisition was analyzed using the quantitative description. The results showed that: (1) the preparation of seam welding by most of the students was still in the good category, (2) the seam welding process by most of the students was still low; and (3) the welding results of most of the students are still sufficient. Students' ability in welding practice must be improved through preparation, and good processes, so that they will produce welds that are by standards.

Kata Kunci: *Ability, Welding, Practice*