

## 1F Electric Arc Welding Training for Teachers and Vocational School Students in 2016

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### ABSTRACT

The objectives of the PPM for Regional Development are (1) to obtain the right method so that vocational students can provide certain skills / competencies regarding welding; (2) obtaining data on the success rate of implementing PPM in 1 F electric arc welding training, (3) knowing the responses from teachers and 63 students of SMK Diponegoro, how much benefit they received with training assistance, and (4) helping the productive learning process of SMK Diponegoro who lacks funding and practical facilities. The methods used in PPM Regional Development are (1) the PPM TEAM conducts a survey at SMK Diponegoro, (2) formulates training materials, (3) determines the most urgent class for practical activities, (4) determines the training location, (5) plans time for the implementation of the practice, (6) making a schedule for the implementation of training related to the agreed time between the servants and the SMK, (7) compiling the tools and materials needed, (8) Arranging a schedule for instructors who will provide training, (9) making materials theory and jobsheets, (10) making plans for evaluation of activities, (11) conducting welding training activities, (12) conducting evaluations, (13) conducting seminars on the results of PPM, (14) making reports.

The results of the implementation of Regional Development PPM activities (welding training) (1) conducting welding training according to training procedures, (2) based on the assessment of training participants who completed 4 welding jobs totaling 61 students who collected 3 jobs 2 students and the average value of welding practice was 74.81 , (3) the responses from the students based on the questionnaire the score was 3.35 which means "Good" while the responses of the teachers and principals felt that they were helped by welding training, (4) the training participants were able to weld using arc welding.

Kata Kunci: *Electric arc welding, plating, IF welding joints, Welding training.*