

**PENGEMBANGAN *JOBSHEET* MATA PELAJARAN
DASAR TEKNIK MESIN KOMPETENSI
PENGELASAN SMAW DI SMK NEGERI 1 SEDAYU**

Oleh:
Rizal Banu Aji
NIM. 15503247007

ABSTRAK

Tujuan penelitian ini dirancang untuk: (1) Mengetahui spesifikasi *jobsheet* dasar teknik mesin kompetensi pengelasan SMAW pada semester genap untuk siswa kelas X di SMK Negeri 1 Sedayu. (2) Mengetahui kelayakan *jobsheet* mata pelajaran dasar teknik mesin keahlian pengelasan SMAW pada semester genap untuk kelas X di SMK N 1 Sedayu menurut ahli materi, ahli media dan pengguna.

Penelitian ini merupakan penelitian pengembangan (*Research and Development*) yang disesuaikan dengan model ADDIE yang diadaptasi dari Robert Maribe Branch (2009). Subjek penelitian pengembangan *jobsheet* ini adalah dosen jurusan Pendidikan Teknik Mesin Fakultas Teknik UNY sebagai ahli media, guru mata pelajaran dasar teknik mesin kompetensi keahlian pengelasan SMAW di SMK N 1 Sedayu sebagai ahli materi dan media serta siswa kelas X program keahlian Teknik Pengelasan di SMK N 1 sedayu sebagai pengguna *jobsheet*. Pada penelitian ini menggunakan 2 macam teknik pengambilan data yaitu secara kualitatif dan kuantitatif.

Hasil penelitian diketahui bahwa: (1) Spesifikasi *jobsheet* dasar teknik mesin kompetensi pengelasan SMAW pada semester genap untuk siswa kelas X di SMK Negeri 1 Sedayu yaitu menghasilkan *jobsheet* dasar teknik mesin kompetensi pengelasan SMAW yang terdiri dari kompetensi dasar pengelasan pembuatan jalur, pengelasan sambungan 1G, dan pengelasan sambungan T (Fillet), tujuan pembelajaran, teori pengantar, alat dan bahan, langkah kerja, gambar kerja, keselamatan kerja, penilaian, serta untuk hasil akhir *jobsheet* dicetak menggunakan kertas ukuran A4 jenis HVS 80 gram dengan ketebalan *job sheet* 23 halaman. (2) Hasil uji kelayakan pengembangan *jobsheet* dasar teknik mesin kompetensi pengelasan SMAW pada semester genap untuk siswa kelas X di SMK Negeri 1 Sedayu (a) menurut ahli materi masuk dalam kategori layak dengan persentase sebesar 81,94%, (b) menurut ahli media masuk dalam kategori sangat layak dengan persentase sebesar 86,11% dan (c) menurut pengguna masuk dalam kategori layak dengan persentase 84,07%.

Kata Kunci: pengembangan, *jobsheet*, pengelasan SMAW

***JOB SHEET DEVELOPMENT OF SUBJECTS OF WELDING
COMPETENCY ENGINEERING MACHINERY SMAW
IN SMK NEGERI 1 SEDAYU***

By:
RIZAL BANU AJI
NIM. 15503247007

ABSTRACT

The purpose of this study was designed to: (1) determine the basic jobsheet specification of SMAW welding competence engineering in the even semester 10th grade students at Sedayu State Vocational High School, (2) find out the feasibility of SMAW basic skills in mechanical engineering welding skills in the even semester for class X at Sedayu Vocational High School 1 according to material experts, media experts and users.

This research is a research and development adapted to the ADDIE model adapted by Robert Maribe Branch (2009). The research subject of this jobsheet development was the lecturer in mechanical engineering education at the Faculty of Engineering UNY as a media expert, a competency subject engineering teacher in the SMAW welding skills in vocational high school 1 Sedayu as a material and media expert as well as grade X welding engineering students in vocational high school 1 Sedayu as jobsheet user. In this study using 2 kinds of data retrieval techniques namely qualitatively and quantitatively.

The results of the study revealed that (1) the specifications jobsheet basic mechanical engineering competence SMAW welding in the even semester for the students of class X in vocational high school 1 Sedayu, namely produce a jobsheet basic mechanical engineering competence SMAW spectrum consists of the basic competence of welding manufacture line, welding connection 1G, and welding the connectin T (Fillet), learning objectives, theory introduction, tools and materials, work steps, working drawings, safety, assessment, as well as the results of the end of the jobsheet is printed using A4 size paper type hvs 80 gram with the thickness of the jobsheet 23 pages. (2) test results the feasibility of the development of the jobsheet basic mechanical engineering competence SMAW welding in the even semester for the students of class X in vocational high school 1 Sedayu, (a) according to the expert material in the category of very decent with a percentage of 81,94%, (b) according to the media experts in the category of very decent with a percentage of 86,11%, and (c) according to user's entry in the category with the percentage of 84,07%.

Keyword: development, jobsheet, SMAW welding