

ABSTRAK

Ahmad Sayuti 5181121012 : Pengembangan Jobsheet Berbasis Aplikasi 3d Modeling Onshape Pada Mata Pelajaran Teknik Pemesinan Bubut Kelas XI Program Keahlian Teknik Pemesinan Smk Negeri 2 Kota Tanjung Balai

Penelitian ini bertujuan untuk mengembangkan *jobsheet* berbasis 3D *modeling onshape* yang lebih moderen dan menarik untuk siswa dengan pengembangan *jobsheet* berbasis 3D *modeling* pada mata pelajaran teknik pemesinan bubut kelas XI teknik pemesinan SMK Negeri 2 Tanjungbalai serta berguna untuk mengetahui kelayakan *jobsheet* berbasis 3D *modeling*. Penelitian ini menggunakan model pengembangan ADDIE, yaitu meliputi tahapan *Analisis, Desain, Development, Implementation* dan *Evaluation*, pengujian produk dilakukan dengan menggunakan kusioner. Uji kelayakan media diukur melalui uji validasi ahli materi, uji validasi ahli media dan uji validasi ahli desain. Penilaian *jobsheet* dinilai oleh responden siswa kelas XI Teknik pemesinan SMK Negeri 2 Tanjungbalai.

Hasil kelayakan pada media yang dikembangkan berbasis 3D *modeling onshape* dinyatakan “sangat layak” . Berdasarkan penilaian validasi ahli materi dengan skor rata-rata 4,77 dengan kategori “Sangat Layak”, penilaian validator ahli media dengan skor rata-rata 3,57 dengan kategori “Layak”, penilaian ahli desain dengan skor rata-rata 4 dengan kategori “Sangat Layak” dan penilaian dari uji responden dengan skor rata-rata 4,66 dengan kategori “Sangat Layak”.

Kata Kunci : 3D *Modeling*, Kelayakan *Jobsheet*, Teknik Pemesinan Bubut

ABSTRACT

Ahmad Sayuti 5181121012 : Jobsheet Development Based On The 3D Modeling Onshape Application In The Class XI Machining Engineering Subject, Machining Engineering Skills Program At SMK Negeri 2 Tanjung Balai City

This research aims to develop a jobsheet based on 3D onshape modeling that is more modern and attractive for students by developing a jobsheet based on 3D modeling in the lathe machining engineering subject class this research uses the ADDIE development model which includes the stages of Analysis, Design, Development, Implementation and Evaluation, product testing is carried out using questionnaires. The media suitability test was measured through a material expert validation test, a media expert validation test and a design expert validation test. Job sheet assessments were assessed by class XI machining engineering students respondent at SMK Negeri 2 Tanjungbalai.

The feasibility results for the media develop based on 3D modeling were declared "Very Feasible". Based on the material expert validation assessment with an average score of 4,77 in the category "Very Feasible", the media expert validation assessment with an average score of 3,57 in the category "Feasible", assessment of design expert with an average score of 4 in the category "Very Feasible" and assessment from the test respondent with an average of 4,66 in the category "Very Feasible".

Keywords : 3D Modeling, Jobsheet Feasibility, Lathe Machining