

## ABSTRAK

Astoni Sinambela. Pengembangan Media Pembelajaran Berbasis Video Tutorial Pada Mata Pelajaran Teknik Pemesinan Bubut Kelas XI Teknik Pemesinan SMK Negeri 1 Percut Sei Tuan. Skripsi. Fakultas Teknik Universitas Negeri Medan. 2022.

Penelitian ini bertujuan untuk : (1) Mengetahui cara pengembangan media pembelajaran berbasis video tutorial pada mata pelajaran Teknik Pemesinan Bubut Kelas XI Teknik Pemesinan SMK Negeri 1 Percut Sei Tuan, (2) Mengetahui tingkat kelayakan media pembelajaran berbasis video tutorial Pada Mata Pelajaran Teknik Pemesinan Bubut Kelas XI Teknik Pemesinan SMK Negeri 1 Percut Sei Tuan. Penelitian ini termasuk dalam penelitian dan pengembangan atau Research and Development (R&D) menggunakan model pengembangan ADDIE. Prosedur pembuatan media ini meliputi (1) Analisis produk yang akan dikembangkan, (2) Mengembangkan Produk awal, (3) Validasi ahli dan revisi, (4) Uji lapangan skala one to one dan revisi produk, (5) Uji lapangan skala kecil dan produk akhir. Pengembangan produk ini menggunakan software Kine Master. Data produk berupa data kualitatif yang didapat dari saran dan masukan ahli media, ahli materi, guru dan siswa, serta berupa data kuantitatif yang berasal dari penilaian ahli media, ahli materi, guru dan siswa. Hasil penelitian ini adalah : (1) pembuatan media pembelajaran berbasis video tutorial pada mata pelajaran Teknik Pemesinan Bubut langkah-langkahnya meliputi, analisis dan menentukan Kompetensi inti (KI), Kompetensi dasar (KD), dan indikator, membuat perencanaan konsep video tutorial yang menarik, penyusunan materi pembelajaran, penilaian media melalui validasi ahli media dan ahli materi, revisi media pembelajaran, uji coba skala one to one dan uji coba skala kecil. (2) Hasil kelayakan media pembelajaran berbasis video tutorial pada mata pelajaran Teknik Pemesinan Bubut sebagai berikut : penilaian dari ahli media dengan skor 5.0 dengan kategori sangat layak, ahli materi dengan skor 4.38 dengan kategori sangat layak dan uji coba skala one to one mendapatkan skor 4.26 dengan kategori sangat layak, uji skala kecil mendapatkan skor 4.34 dengan kategori sangat layak.

Kata kunci : Pengembangan media pembelajaran, Teknik Pemesinan Bubut.

## ABSTRACT

Astoni Sinambela. Development of Tutorial Video-Based Learning Media in Lathe Machining Engineering Subject Class XI Machining Engineering at SMK Negeri 1 Percut Sei Tuan. Essay. Faculty of Engineering, State University of Medan. 2022.

This research aims to: 1) Learn how to create video tutorial-based learning materials for Lathe Machining Engineering Class XI Machining Engineering at SMK Negeri 1 Percut Sei Tuan; and 2) determine the degree to which video tutorial-based learning materials are feasible for Lathe Machining Engineering Courses. Mechanical Engineering in Class XI at SMK Negeri 1 Percut Sei Tuan. Utilizing the ADDIE development model, this research is included in research and development, or R&D. Product analysis, initial product development, expert validation and revision, one-to-one field test and product revision, small-scale field test, and the final product are all steps in the process of making this media. Kine Master software is being used in this product development. Product data in the form of qualitative data gathered from the opinions and suggestions of teachers, students, material experts, and media experts, as well as quantitative data gathered from their evaluations. The study's findings are as follows: 1) creating instructional materials based on video tutorials for the Lathe Machining Engineering course. Making interesting video tutorial concept plans and analyzing and determining core competencies (KI), basic competencies (KD), and indicators are the steps. revision of learning media, one-to-one and small-scale trials, preparation of learning materials, and media assessment through validation of media and material experts. 2) The following are the findings regarding the viability of instructional materials based on video tutorials for the study of engineering lathe machining: media experts received a score of 5.0, placing them in the very good category; material experts received a score of 4.38, placing them in the very feasible category; a one-on-one scale trial received a score of 4.26, placing them in the very good category; and the small-scale test received a score of 4.34, placing them in the very good category.

Keywords: Development of learning media, Lathe Machining Techniques.