

## ABSTRAK

**Khavita Juwita. NIM 5122111010. Penerapan Simulasi AutoCAD Dalam Meningkatkan Hasil Belajar Gambar Konstruksi Bangunan Siswa Kelas XI Teknik Gambar Bangunan SMK Negeri 1 Percut Sei Tuan . Skripsi. Fakultas Teknik – Universitas Negeri Medan. 2017.**

Penelitian ini merupakan Penelitian Tindakan Kelas (PTK) yang bertujuan untuk menerapkan metode pembelajaran Simulasi AutoCAD untuk meningkatkan aktivitas dan hasil belajar mata pelajaran Gambar Konstruksi Bangunan pada kompetensi Dasar Menerapkan Spesifikasi dan Ketentuan Teknis Pada Gambar Tangga di Kelas XI Program Keahlian Teknik Gambar Bangunan SMK Negeri 1 Percut Sei Tuan T.P. 2016/2017 yang berjumlah 25 siswa. Prosedur tindakan dilaksanakan pada dua siklus dan setiap siklus terdiri dari tahapan perencanaan (*planning*), tindakan (*acting*), pengamatan (*observing*) dan refleksi (*reflecting*). Pada siklus I mempelajari tentang macam-macam tangga dan pada siklus II mempelajari mendesain perhitungan tangga. Hasil penelitian diambil dari tes hasil belajar siswa dan lembar observasi. Hasil penelitian menunjukkan aktivitas belajar siswa meningkat, pada siklus I pertemuan pertama nilai rata-rata kumulatif aktivitas siswa siklus I yaitu 74 dengan kriteria ketuntasan minimum (KKM) yaitu 75 dan pada hasil nilai rata-rata aktivitas siswa siklus II yaitu mencapai 84. Pada nilai hasil belajar siswa mengalami peningkatan, yaitu pada siklus I rata-rata hasil belajar siswa 74 dengan KKM 75 dan pada siklus II mengalami peningkatan nilai rata-rata hasil belajar kompetensi siswa mencapai 86. Berdasarkan hasil penelitian dapat disimpulkan bahwa dengan Penerapan Simulasi AutoCAD dapat Meningkatkan Aktifitas dan Hasil Belajar Gambar Konstruksi Bangunan Siswa Kelas XI Teknik Bangunan SMK Negeri 1 Percut Sei Tuan T.A. 2016/2017.

**Kata Kunci** : Simulasi AutoCAD, Aktivitas Siswa, Hasil Belajar

## ABSTRACT

**Khavita Juwita. NIM 5122111010. Application of the Simulation Results in improving Learning AutoCAD Drawing building construction Grade XI building graphics SMK Negeri 1 Percut Sei Tuan. Thesis. The faculty Of Engineering State University Of Medan. 2017.**

This research is a Research Action Class (PTK) with aims to apply the method of simulated learning AutoCAD to increase the activity and result of the study subjects picture of construction of buildings on the basis of competence apply the technical specifications and technical term on the image of staircase in class XI Engineering Program Image of the building a SMK Negeri 1 Percut Sei Tuan T.P 2016/2017 totalling 25 students. The procedure measures implemented in two cycles and each cycle consisting of the stages of planning (planning), action (acting), observation (observing) and reflection (reflecting). In the first cycle to learn about the various steps and the second cycle of study design calculation steps. The results were taken from the test results of student learning and observation sheet. The results showed increased student learning activities, at the first meeting of the first cycle of the average value of cumulative activity, with 74 students the first cycle with minimum completeness criteria (KKM) is 75 and the average value of the results of the activity of students reaching the second cycle 84. In value learning outcomes of students has increased, which in the first cycle average student learning outcomes 74 with KKM 75 and the second cycle increased the average value of student learning outcomes competences reached 86. Based on the results of this study concluded that the application of AutoCAD Simulation can increase Activity and Learning Results Image Building Building Engineering Class XI student of SMK Negeri 1 Percut Sei Tuan TA 2016/2017

**Keywords:** AutoCAD, Simulation Activity Student Learning, outcomes