

ABSTRAK

Al Muharram Hidayatullah Lubis. NIM 5133111004. Penerapan Model Pembelajaran Kooperatif Type Jigsaw Untuk Meningkatkan Hasil Belajar Estimasi Biaya Konstruksi (EBK) Pada Program Keahlian Desain Pemodelan Dan Informasi Bangunan (DPIB) Siswa Kelas XI SMK Negeri 2 Binjai Tahun Ajaran 2018/2019.

Penelitian ini merupakan Penelitian Tindakan Kelas (PTK) yang bertujuan untuk menerapkan model pembelajaran Kooperatif *Type Jigsaw* untuk hasil belajar mata pelajaran Estimasi Biaya Konstruksi pada kompetensi Dasar Spesifikasi Bahan-Bahan Pekerjaan Konstruksi Gedung serta Perhitungan Biaya Material (Bahan) Pada Pekerjaan Konstruksi Gedung di Kelas XI DPIB Kompetensi Keahlian Desain Pemodelan dan Informasi Bangunan SMK Negeri 2 Binjai T.P. 2018/2019 yang berjumlah 31 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 Memahami spesifikasi bahan-bahan pekerjaan konstruksi gedung dan jalan jembatan dan pada siklus II Menghitung spesifikasi bahan-bahan pekerjaan konstruksi gedung, jalan dan jembatan. Hasil penelitian diambil dari tes hasil belajar siswa. Hasil penelitian Siklus I nilai hasil belajar siswa rata-rata 79.24 dengan kriteria ketuntasan minimum (KKM) yaitu 70 dan pada hasil belajar Siklus II mengalami peningkatan dengan nilai rata-rata yaitu mencapai 85.60. Berdasarkan hasil penelitian dapat disimpulkan bahwa dengan Penerapan model pembelajaran Kooperatif *Type Jigsaw* dapat Meningkatkan Hasil Belajar Estimasi Biaya Konstruksi Siswa Kelas XI Desain Pemodelan dan Informasi Bangunan SMK Negeri 2 Binjai T.P. 2018/2019.

Kata Kunci —: Kooperatif *Type Jigsaw*, EBK , Hasil Belajar



ABSTRACT

Al Muharram Hidayatullah Lubis. NIM 5133111004. Application of Type Jigsaw Cooperative Learning Model to Improve Learning Outcomes of Estimated Construction Costs (EBK) in Building Information and Modeling Design (DPIB) Expertise Program for Class XI Students of State Vocational High School 2 Binjai Academic Year 2018/2019.

This study was conducted by Classroom Action Research (CAR) which aims to apply the Cooperative Type Jigsaw learning model to the learning outcomes of the Estimated cost of Construction on Basic competencies Specification of Building Construction Work Materials and cost Calculation of Material (Material) at Building Construction Work in Class XI DPIB Expertise Competence Modeling and Information Building Design of State Vocational School 2 Binjai TP 2018/2019 which numbered 31 students. The procedure of action was carried out in two cycles and each cycle consists of stages of planning (planning), actions (acting), observation (observing) and reflection (reflecting) At the cycle I, the students Understood the specifications of building construction materials and bridge roads and at the cycle II, the students Calculated the specifications of building construction materials, roads and bridges. The results of the study were taken from the student learning outcomes test. The results of the first cycle of student learning outcomes value increased that is 79.24 with minimum completeness criteria (KKM) which is 70 and on the results of the average value of student activity cycle II which reached 85.60. Based on the results of the study, the researcher was concluded that the Application of the Type Jigsaw Cooperative learning model can Increase the Learning Outcomes of Construction Cost Estimates for Class XI Students in Model Design and Building Information at State Vocational School 2 Binjai T.P. 2018/2019.

Keywords: Type Jigsaw Cooperative, EBK, Student Learning outcomes.