# Pelatihan Tool Grinding Pahat Bubut Tipe Oblique untuk Meningkatkan Kompetensi Mengajar Guru SMK dan Kualitas Hasil Praktik Pemesinan Bubut di SMK DIY

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ABSTRACT

*This PPM-based of research aims to improve the knowledge and ability of vocational high school teachers of machining engineering in: (1) understand the theory of lathe chisel types of orthogonal and oblique, (2) selecting the type of lathe chisel in accordance with the material to do, (3) perform sharpening/grinding the lathe chisel type of orthogonal and oblique, and (4) produce quality products of lathe machining according to the standard required. This activity was mainly training by providing theory, practice of sharpening a chisel and practice of turning. The Training held on Saturday to Sunday, 4th to 5th June 2016 in Workshop of Machining Department of Mechanical Engineering Education FT UNY. The training was attended by 25 teachers of SMK in DIY. After training, it was known that: (1) the level of knowledge of vocational high school teachers of machining engineering about lathe chisel type of orthogonal and oblique achieving a score of 3,94 so it is in the good category; (2) the ability of vocational high school teachers of machining engineering in choosing the type of lathe chisel in accordance with material achieving a score of 3,88 so it is in the good category; (3) the ability of vocational high school teachers of machining engineering in doing sharpening/grinding the lathe chisel type of orthogonal and oblique was good and accordance with the standards; (4) the quality of products of lathe machining using the lathe chisel type of oblique is better and accordance with the standards than using a chisel type of orthogonal.*

Kata Kunci: *tool grinding, orthogonal, oblique*