

# **Evaluation of workload in Eucalyptus harvesting operations: Application of OWAS method**

Nopparat Manavakun<sup>1</sup>

<sup>1</sup>Department of Forest Sciences, University of Helsinki, Finland

nopparat.manavakun@helsinki.fi

This study was conducted during the final felling of Eucalyptus stands in Thailand. The aim of this study was to evaluate the workload of timber harvesting operations, which is a motor-manual based system. The OWAS (Ovako Working Posture Analysing System) was performed in this study, in an attempt to improve workers well-being, work safety, and work efficiency. The overall result of physical workload was classified as mild risk index, corrective actions required in the near future. Furthermore, manual loading, delimiting, and stacking classified as the critical tasks among the work phrases, where measures for improvement were needed. The suggestions from OWAS analysis were job improvement, job redesign, or new working methods development.

**Keywords:** *OWAS method, risk index, workload, timber harvesting.*