

Isiwat Bandrapiwat 2008: Effects of Learning from Knowledge Management Blog upon Metacognition and Learning Potential of Human Resource. Doctor of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Associate Professor Surachai Prasertsaraay, M.A. 123 pages.

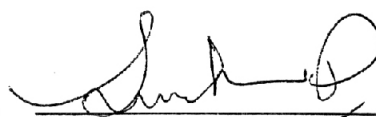
The objectives of this research were (1) to develop knowledge management blog (2) to study metacognition and learning potential and (3) to study correlation in achievement, metacognition, and learning potential of the individuals who learned from rubber industry knowledge management blog. The population was scientists of Department of Agriculture. Analyses of the data were expressed in Dependent-Samples t-Test, Pearson Product Moment Correlation Coefficient, and Multivariate Analysis of Variance.

Web-based tests were used for data collection. Research tools were knowledge management blog, achievement test, metacognition test, and learning potential test. The 35 scientists were systematic random sampling from the population. They learned from rubber industry knowledge management blog by themselves in 3 days.

The results showed that the mean of metacognition was 56.77 from a total of 100 and the mean of learning potential was 103.77 from a total of 150. The posttest score (18.66) was higher than the pretest score (14.17). The components of metacognition were awareness, cognitive strategy, planning, and self-checking. The learners had awareness and self-checking in the moderate level and had cognitive strategy and planning in the less level. The components of learning potential were distance learning readiness, effort, self-efficacy, and worry. The learners had distance learning readiness, effort, and self-efficacy in the moderate level and had worry in the less level. As for hypothesis testing, it was found that metacognition was significantly related to achievement score at .05 level. Correlation between awareness and worry was significant at .05 level. Correlation between planning and worry was also significant at .05 level. The analysis revealed that the learners who had the high level of achievement score gained higher metacognition than who had the less level of achievement score, but there were not different in learning potential. Lessons learned from rubber industry knowledge management blog were that the learners could succeed in gaining new knowledge of rubber industry and accept the content of the blog. The important problems were inadequate time for learning and lack of attention.

ISIWAT B.

Student's signature



Thesis Advisor's signature

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