



Project Title: Enhancing Lab Teaching and Safety using Mobile Learning Tools

Project Summary *(150 words maximum)*

This project will enhance undergraduate learning and the safety of all users of the Centre for Advanced Wood Processing's High Head Laboratory (undergraduates, graduate students, staff, faculty and non-credit professional learners) by augmenting and extending a multimedia learning system that is currently accessible via mobile devices (smart phones and tablets). The system was developed in 2011 by Centre staff, instructors and students using a small grant from Nokia Products Ltd. and is currently in use by students in the B.Sc. Wood Products Processing program. Using the camera application of their smartphone or tablet, students scan bar codes affixed to lab machinery to access safety instructions and operating procedures specific to each piece of equipment. TLEF funding is requested to create additional content such as animations, videos, graphics and glossaries that will support and supplement course lab work and provide real-world context on how the equipment is used in industrial situations.