

Simlog Customer Profile

Assiniboine Community College

Assiniboine Community College is located in the Province of Manitoba (Canada), with several campuses that offer over 40 unique diploma and certificate programs across a variety of disciplines including culinary arts and hospitality, business, agriculture and environment, health and human services, trades and technology. The college also delivers apprenticeship programming in a range of skilled trades disciplines.

In particular, Assiniboine Community College prioritizes developing partnerships with industry, First Nations, and rural and remote communities, with a focus on enhancing their capacity, and supporting employer innovation and productivity through customized training.

To that end, the College recently created a new **Heavy Equipment Operator Program** with a special simulation lab featuring Simlog Personal Simulators.

Why Simulation

Until recently, the only way to train heavy equipment operators was on real machines in real work environments.

“The simulators used in the program is an inexpensive way of improving traditional operator training



Assiniboine Community College
Brandon, Manitoba

programs,” said Gerald Cathcart, the Business Development Coordinator at Assiniboine Community College.

Simulator-based training offers a safe, inexpensive way of training individuals while teaching core skills. Students can practice on the simulators first. If they make a mistake they simply try again without risking a mishap on a costly piece of equipment. They gain confidence in their skills quicker and in a much safer environment. These simulators are designed for training in a modular format allowing students to start at their appropriate skill level. The simulators provide performance tracking that allows students to work without the need for trainer supervision. This greatly reduces the cost with little to no supervision required in addition to lowering the risk of injury before actual in-seat training begins.

About the HEO Program

The program provides students with a combination of training in fundamental heavy equipment operator skills as well as related training in surveying, safety and equipment servicing. In particular, students are taught how to operate heavy equipment in a safe manner, carry out preventative maintenance, complete pre- and post-inspections, remove and install attachments, load and unload equipment, and read and interpret legislation, site plans, and manufacturer manuals.

The training provided to students will give them an opportunity to learn on sophisticated machinery and leave them well-equipped to meet the demands of industry. This training is mobile and can be delivered in any community in Manitoba.

The program was designed to help meet the growing demand in the energy and construction sectors. Graduates of this program receive a Certificate of Achievement from Assiniboine Community College.

It includes 80 hours of simulator-based training, along with 160 hours of seat-time at the controls of real heavy equipment.

Courses	Hours
Service Principles	40
Safety Principles	40
Basic Survey Principles	40
Simulation	80
In-seat with instructor	20
Work Practicum	140

The first program took place in March 2016 with a group of 3 students, and by the end of 2017 a total of 40 students will have graduated from the program. Participants in the program have experienced an average of 80% success rate in finding employment after graduation.

The program uses the National Center for Construction Education and Research (NCCER) textbooks and lesson plans, and to earn the Certificate of Achievement, students have to pass a practical exam. Final evaluation is based on the instructor's experience and work practicum performance where an employer signs off on their capability.

The Simulator Lab

The simulator lab at Assiniboine Community College uses dedicated and multi-purpose portable simulation stations that allow for training up to 16 students at the same time. The stations are all equipped with tabletop Replica Controls and feature the Backhoe Loader, Hydraulic Excavator, Bulldozer, and Wheel Loader Personal Simulators.

About Simlog

Simlog is the world leader in providing affordable and effective PC-based simulation software for heavy equipment operator training in mining, construction, material handling and forestry. Called Personal Simulators, only Simlog's products leverage the power of today's PCs with the variety of USB-ready setup options needed to suit a range of training budgets. With hundreds of training service providers and equipment owner/operators around the world training thousands of people every year, Simlog products have been proven to reduce training costs, increase operator productivity, and help minimize the safety risks associated with operator inexperience.

Other Canadian Community Colleges Using Simlog's Personal Simulators:

- College of New Caledonia, British Columbia
- College of the North Atlantic, Newfoundland
- Conestoga College, Ontario
- Confederation College, Ontario
- Durham College, Ontario
- Medicine Hat College, Alberta
- New Brunswick Community College, New Brunswick
- Northern College, Ontario
- Northern Lights College, British Columbia
- Northwest Community College, British Columbia
- Nova Scotia Community College, Nova Scotia
- Olds College, Alberta
- Saskatchewan Indian Institute of Technologies, Saskatchewan
- Saskatchewan Polytechnic, Saskatchewan
- Vanasep Training Society, British Columbia



Hydraulic Excavator Personal Simulator Portable Station



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