



Manitoba Integrated & Standardized Safety Training | Newsletter Fall 2017



MISST Project Update

We are now entering the final stages of information gathering with the distribution of the MISST survey to industry stakeholders. To date, our research team has conducted dozens of interviews and consultations with a broad cross section of stakeholders. These consultations have both informed and framed our inquiry, particularly the design of the survey.

Our project partners and stakeholders have been very engaged and that has given us a very high degree of confidence that the project will yield the outcomes we set out to achieve. As we await the completion of the survey and evaluation of results, feedback to date suggests that there will likely be strong support for working towards standardization of safety in Manitoba.

Project Partners



If that is indeed the case, we will have to give due consideration to a secondary phase to consider development and implementation of such standards. We are hopeful that we can launch the second phase without delay and also hope to keep our partners and stakeholders fully engaged through to subsequent phases.

Given progress to date, we anticipate a final report in Spring 2018. The final results and recommendations will be based on a comprehensive environmental scan of current systems and practices in Manitoba as well as a review of some other Canadian jurisdictions. The extensive completed primary and secondary research will inform the suggested conceptual training model(s).

I am very grateful for the efforts of our project team in being a driving force in the design and execution of our project plan. Of course, the execution has leaned heavily on our project partners and industry stakeholders. Their timely and ongoing contribution has ensured that we have gained multiple perspectives during our research.

We look forward to sharing the results of the project as it progresses towards conclusion in Spring 2018. Again, we anticipate launching Phase 2 shortly after the conclusion of our current project and very much look forward to the continued participation of our project partners and across Manitoba stakeholders.

Once again, thank you for your support and we look forward to continuing our work of Improving safety comes through standardized safety training with your support and participation.

Sudhir Sandhu, Chief Executive Officer
Manitoba Building Trades



Keeyask Project Generating Safety-First Focus at Site

It is one of the largest capital construction projects currently underway in Canada, and as the Keeyask Generating Station takes form, the project keeps building on its safety record.

“At Keeyask, we have seen constant and continuous improvements in our safety record - even throughout our seasonal ramp ups, when we increase from 800 to over 2,500 workers at site,” said Dave Bowen, Manitoba Hydro Director of the Keeyask Project.

“At Keeyask, we are building a generating station, as well as a long term relationship with our Partners and Indigenous people in our Northern communities. Not only are we proud of our achievements on those fronts - we are equally proud that we are doing it safely.”

Keeyask is being developed in partnership between Manitoba Hydro and four Manitoba First Nations – Tataskweyak Cree Nation, War Lake First Nation, York Factory First Nation and Fox Lake Cree Nation – working together as the Keeyask Hydropower Limited Partnership (KHLPP). The commitment to safety by the KHLPP, Manitoba Hydro, and its contractors is reflected in the project’s injury statistics.

In 2016, the lost time incident frequency recorded was 0.39, while the Manitoba industry average was reported at 4.2 (source: The Manitoba Workplace Injury Statistics Report 2007-2016).

“The dedication of our partners and contractors’ performance and attention to safety - particularly our largest contractor on site, BBE Hydroconstructors Ltd - is crucial to our success in keeping each worker safe,” said Dave. “Whether a third cook, a rock truck driver or security staff, everyone’s efforts support our ability to build Keeyask efficiently, and safely.” Building this strong safety culture happens through several initiatives, starting with orientation prior to coming to the project site.

“Every person coming to the project undergoes a site onboarding session with Manitoba Hydro, in addition to their employee orientation provided by their employer,” said Dave. “Topics covered include safety, the environment, and our harassment/violence-free workplace standards.” Onsite, campaigns like the BBE Ltd’s “Stop the Drop” focus on safety topics to change behaviours.



“Stop the Drop addressed near misses of tools and equipment falling from scaffolding,” said Denine Rodrigues, Manitoba Hydro Safety Officer. “The campaign was designed to ensure workers understood risks associated with dropped tools. One of the ways BBE demonstrated this risk was by dropping tools and equipment of varying sizes from heights onto melons.”

Through additional onsite communications, Manitoba Hydro reports on the safety record; promotes safety messaging on hazards, policies and practices; and profiles workers that model positive behaviours.

BBE Ltd. employee, John Marez, was featured in a safety ambassador poster. With over 30 years’ experience in construction, John has seen a lot of changes in workplace safety. “It is important to set rules on paper and talk about safety, but showing people, especially the newer, younger staff, how to work safe is what gets through to them,” said John. “My tip at the work site is 20/20/20 – take 20 seconds every 20 minutes to look 20 feet around you.”



The Keeyask Project is a 695-megawatt (MW) hydroelectric generating station being built 725 kilometres northeast of Winnipeg on the lower Nelson River. Visit Keeyask.com for more information.

Manitoba Hydro, Communications Department

Red River College looks to the future with the Skilled Trades and Technology Centre

With a new Skilled Trades and Technology Centre (STTC), Red River College will deliver a 21st-century facility customized to educate and train students for emerging careers.

The nearly completed STTC will enhance the student experience by providing innovative learning opportunities with state of the art technologies in a sustainably built facility. The building was designed as a teaching tool for students as building systems are purposefully exposed and building performance monitoring can be incorporated into academic programs.

The STTC is being built on the school’s Notre Dame Campus, located on the northwest side of the city. The 100,000 square-foot building will mark a significant investment in facilitating growth for multiple trades both in modernizing equipment and accommodating additional enrollments. The building will also be LEED® Gold or Platinum certified.

With more than 200 full- and part-time degree, diploma and certificate programs, Red River College is Manitoba’s largest applied learning institute. The college aims to prepare its students for the workforce after graduation with education and experience using up to date equipment and instructional resources. The STTC has been built with these goals in mind from design right on through to construction.

Red River College's Notre Dame Campus was primarily built in the 1960s and even though the facilities and classroom technology have received numerous upgrades over the years, the current buildings are not always set up for what the modern-day learner needs or expects. In the new STTC, teachers and students will be working in a facility that will provide an atmosphere that improves the learning experience and ensures a higher level of preparedness for rapidly changing future needs.

The majority of the space will be dedicated to traditional trades like carpentry, electrical, sheet metal, and refrigeration and air conditioning (HVAC). However; the building will also house cutting-edge programs, such as robotics, automation and computer-aided design (CAD), preparing students for the jobs of the future.

Red River College's Centre for Applied Research in Sustainable Infrastructure (CARSI) has been involved in the development of the STTC from the start, with students contributing to the design process in meaningful ways. Students will also be involved in the post-occupancy monitoring of the building, especially regarding the LEED® certification.

A great example of increased energy efficiency in the case of the STTC is to fill the building with as much natural light and solar heat as possible. Skylights and light wells will let a significant amount of sunlight in the building during the day. The sunlight will brighten and help heat the building. Glazing in corridor walls and skylights will effectively reflect the light through each classroom and hallway. There are significant energy savings that will come from all the natural lighting and the lights that are in use will be energy efficient LED throughout 100% of the facility.

Sensors in the walls and on the roof will monitor the building's energy performance and will confirm if the building is performing optimally while providing a teaching tool for students who are learning about energy-efficient technologies. Readouts from the sensors will be on display on monitors throughout the building not only for interested students and faculty but also for detection and use by the building operations staff. Everyone in the facility will be capable of seeing how the building is performing, and it will also be made available online for interested parties to observe and compare to various other buildings around the world.

With occupancy predicted in mid to late summer, plans are under way to see a full complement of programs being offered out of the STTC starting with fall intakes and carrying on throughout the 2018-19 school year.

David McCutcheon, Acting Chair Construction Trades
Red River College



Worker Profile - Lindsay Mann

Lindsay Mann is the first female Red Seal-certified heat and frost insulator in Manitoba. She is also a member of Build Together Manitoba, which was created by Manitoba's skills tradeswomen; it supports hiring women into, and keeping them in, the Trades.

Communicating on the Job

In the Insulators trade for 13 years, Lindsay has been with Local 99 (Heat and Frost Insulators) for 8 years. As a heat and frost insulator, Lindsay insulates glycol, steam, domestic water and refrigeration lines, vessels and duct work; she also applies different finishes, such as PVC, aluminum cladding and canvas. Insulating materials help prevent or reduce the passage of heat, cold, moisture, sound and fire.

"I have run my own jobs," says Lindsay, who has also run a crew of 6 or more people. "This entails delegating jobs, ordering material, keeping safety information up to date and most importantly communicating with all trades and General Foremen." When not on the job, Lindsay also trains others for her trade.

Protocols Ensure Health and Safety are Protected

Most of the training Lindsay does is at the Local 99 Union Hall. "First aid, harness and lift training, WHMIS, and confined space training are all a must in our trade." Special courses, such as fire-stopping and asbestos abatement are also offered. "Asbestos and lung-associated complications are big safety concerns in our trade, so it's important that special training and protocols are in place to ensure our health and safety is protected."

Communication is Essential to a Safe Work Environment

Lindsay stresses that "communication is essential and a main key to a safe work environment." If you are going to resolve an issue, you first have to get it out in the open. "To do this you must build trust and relationships with co-workers. Everyone can learn from another in a team environment. We need to look out for one another and feel comfortable to 'speak up' when something doesn't look right or safe." That is why communication "needs to be integrated into all safety training." Research Study of Health & Safety Needs of Women in the Trades



Lindsay Mann

Research Study of Health & Safety Needs of Women in the Trades

The Safety and Health Investment Project’s Addressing the Health and Safety Needs of Washington Women in the Trades report is the result of a survey of almost 300 workers (men and women) about gender being a predictor of injury and perceived stress.

The main objective was “to better understand the nature, range, and extent of health and safety risks experienced by women in the trades in order to generate effective, evidence-based solutions.” To learn more about the challenges tradeswomen experience in the workplace and the changes that need to be made, [read the full report](#).



Project Supporters

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| Apprenticeship Manitoba | LiUNA Local 1258 | Operating Engineers of Manitoba (OE-987) |
| Construction Safety Association of Manitoba (CSAM) | Manitoba Construction Sector Council (MBCSC) | Operating Engineers Training Institute of Manitoba (OETIM) |
| International Brotherhood of Electrical Workers (IBEW-2085) | Manitoba Hydro | Red River College (RRC) |
| Iron Workers Local 728 | Manitoba Institute of Trades and Technology (MITT) | Safety Services Manitoba (SSM) |
| | | United Association 254 (UA) |

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