



Managing Building Information to Optimize Lifecycle Performance

Location

Lethbridge, AB

Project Completion

July 2017

Project Cost

\$70 Million

The initial main occupant concern during the summer of 2017 related to high space temperatures. Stuart Olson has implemented analytics during the spring of 2018 and are currently working with the trades to identify and resolve operating anomalies, such as slabs being heated whilst the building should be in cooling.



This \$70 million project is a 165,270 sq. ft. addition and renovation to the existing Lethbridge College, expanding the program's capacity by 65%. The building consists of high-bay shop spaces constructed in steel and timber, surrounding a central cluster of offices and classrooms in concrete and timber.

Over 30% of the construction budget was allocated to mechanical and electrical components that powered various state of the art ventilation, exhaust and electronic systems of the building.

Innovation at work

The focus of the design for the building was an open concept space whilst providing state of the art facilities for the students in welding, automotive, engine and heavy duty mechanic programs. Upgrades included ties to existing adjacent buildings along with new ventilation, exhaust and electronic systems. The building was constructed in two phases which added additional complexities to the commissioning and handover of the systems.

Outcomes

- Analytics is currently running on site to identify operational issues and Stuart Olson is working with sub-trades to resolve them. Stuart Olson is set to deliver an optimally operating building per the design standard within the one year warranty period with no call backs while earning customer testimonial.
- Optimizing building performance and energy consumption by ensuring all systems are running as per the sequence of operations
- Resolution of operational issues is providing improved support to the College which is resulting in less call back issues
- Cost savings of \$110k to Stuart Olson as a direct result of installing analytics.