

# Kwantlen University College Trades & Technology Centre

## BUILDING ENGINEERING AWARD OF MERIT

Bush Bohlman & Partners with Levelton Consultants Ltd. and Trow Associates Inc.



Photos courtesy Bunting Coody Architects

Designed and built to LEED gold specifications, Kwantlen University College's Trades and Technology Centre is Canada's newest high-tech facility for trades, technology and applied training programs. The new state-of-the-art 183,000-square-foot facility replaces converted warehouse space at the Newton campus as well as a number of trade shops located at the Langley campus. This world class centre includes 21 shops and 27 classrooms and can accommodate up to 900 full-time students, more than double the number of the former facility.

Located in Cloverdale, B.C., the new campus is comprised of two shop and two classroom wings interconnected by a multi-storey atrium, which features heavy timber construction supported on unique 'V' column frames and multi-coloured glazing. The shop wings are constructed from tilt-up concrete panel walls and steel roofs. Coloured concrete was incorporated into the tilt-ups to save time and money during construction and add to the aesthetic appeal of the building. The classroom wings are built of steel frames supporting concrete slabs on steel decking. Building foundations are pile-supported. An indoor 'covered street' provides visual and physical access to each floor and ensures optimum natural light and ventilation.

The work of professionally trained tradespeople is showcased throughout the new building and features eye-catching examples of masonry, welding, carpentry and building construction work to further enhance the learning experience for new students. Locally produced products, including glulam beams, can be found throughout.

**Client/Owner** • Kwantlen University College  
**Location** • Surrey, B.C.  
**Component** • Structural Engineering  
**General Contractor** • Ledcor Construction  
**Other Consultants** • Bunting Coody Architects, Earth Tech (Canada) Inc., PwL Partnership Landscape Architects Inc.



### BUSH, BOHLMAN & PARTNERS

Consulting Structural Engineers

Tel: 604-688-9861

Fax: 604-688-7039

[www.bushbohlman.com](http://www.bushbohlman.com)



Photos courtesy of Bunting Coody Architects

2008 CEBC Award Recipient for  
Kwantlen University College  
Cloverdale Trades & Technology Centre