

CLOVERDALE Trades & Technology Centre



LOCATION
Surrey, BC

COMPLETION
2007

ACHIEVEMENT
USGBC LEED Gold

AREA
5,363m²

COST
\$42,300,000

GENERAL FACTS

- Comprise of three wings containing 21 workshops, 27 classrooms, computer labs, study lounges, bookstore and cafeteria
- Accommodate up to 900 full-time students

MATERIALS & RESOURCES

- At least 50% of building materials were manufactured locally
- Glulam wood beams contain no added urea formaldehyde resins
- Pine beetle wood for acoustic ceiling - a material that is considered waste
- Coloured tilt-up concrete wall panels for ease of maintenance
- Materials containing low volatile organic compounds (VOC) and off-gassing toxins

WATER MANAGEMENT

- Low-flow toilets, waterless urinals, and sensor-controlled faucets
- Reduce water consumption by 30%

CONSTRUCTION WASTE MANAGEMENT

- Management plan was implemented to recycle and salvage 75% of construction waste
- Conscious effort to conserve surrounding natural habitat and restore any damaged areas

NATURAL LIGHT

- Maximize natural light to reduce energy consumption and improve light quality
- More than 90% of interior spaces have views to outdoors
- Less lamps to purchase, install and recycle
- Photovoltaic solar wall produces a portion of the building's energy
- 33% more energy efficient than facilities of comparable size



State-of-the-art facility for trades, technology and applied training

Wood products used in structure contain no added urea formaldehyde resins

Extensive use of glass to maximize natural light