

## **AL SCHMIDT, BA**

Mr. Schmidt is a Partner of A&J Energy Consultants, and the owner of Construction Training Consulting Services (CTCS), which specializes in the design and implementation of energy efficient construction practices. Prior to his work as a private consultant Mr. Schmidt had many years of on-the-ground experience in residential construction, as builder, framer, cabinetmaker and carpenter. He has shared his passion for building, as a teacher of construction technology at the secondary school level. In 1997 Mr. Schmidt designed and implemented the present day model for the student / builder co-op programs for the Waterloo Region District School Board. This model was later adopted across Ontario due to its ongoing success when Mr. Schmidt as, Coordinator of Education and Training for Mattamy Homes, oversaw the construction of 42 student built houses including five R-2000 homes.

Mr. Schmidt became Mattamy's Manager of Strategic Improvement where he designed an advanced framing and optimal value engineering program for Mattamy Homes in 2001, including trades training, implementation and program evaluation, as well as rolling out the program to more than 3,000 homes in the first year. The success of this program was due to Al's core strengths in his ability to manage complex relationships, overcoming language barriers, and trades-training.

Mr. Schmidt and his team have been conducting DWHR audits for Union Gas since 2007 and for Enbridge since 2010. He is keenly aware of the challenges associated with distribution, market transformation and the adoption of new technologies and construction techniques for all levels of a Residential Construction Company. As a result of his experience as consultant and trainer specializing in energy efficient construction, he has developed a successful working model which helps builders to vertically integrate energy efficient designs into their corporate culture and facilitate it to the site level

Since 2000 Mr. Schmidt has worked as a certified trainer for OVE, ENERGY STAR for New Homes, R-2000, GreenHouse and trades training courses for EnerQuality Corporation. He is a member of Building Canada Team Ontario and the Builder Mentoring Program, which promotes the EnerGuide Rating System, ENERGY STAR for New Homes, R2000 and GreenHouse-certified construction to builders in Ontario. He is also a certified teacher of Construction Technology for the Ontario Ministry of Education.

Mr. Schmidt as well as teaching, has designed many of the successful workshops and training manuals offered as certified training programs by EnerQuality. They include:

- The ENERGYSTAR for New Homes Builder Workshop (various Versions)
- The GreenHouse for New Homes Builder Workshop
- The Building Envelope and Air-sealing
- Optimal Value Engineering
- ENERGY STAR for less than \$2500
- ENERGY STAR for new homes Student Workshop for Ontario school boards
- ENERGY STAR Specialist High Skills Major Program which is being offered across the curriculum and certifies students as ENERGY STAR Specialists

Mr. Schmidt designed the Student Workshops for ENERGY STAR construction for Ontario School Boards and has delivered this program to over 100 teachers across Ontario in “Train-the Trainer” Workshops for EnerQuality Corp. Their students are now completing their co-ops with ENERGY STAR certified builders. Upon completion of the program students are awarded Certified Student ENERGY STAR builder certificates.

Mr. Schmidt has also delivered ENERGY STAR for New Homes workshops for George Brown College, the Large Municipalities Chief Building Officials Conference, Union Gas, Various Municipalities, and many builders for EnerQuality Corporation.

Mr. Schmidt is a contributing member, along with BFREE Homes Design Ltd., to the report “Barriers and Strategies Relating to the Adoption of Energy Efficiency Construction In Preparation for OBC 2017,” funded by OPA and CANMET.

Mr. Schmidt was the recipient in 2008 of the EnerQuality “Leader of the Year” awarded for promotion of sustainable housing and Green Building technologies. He was being chosen as one of seven individuals across Canada as LEED Canada for Homes Trainer by the Canadian Green Building council. And in 2015, recipient of the EnerQuality “ENERGY STAR for New Homes Champion of the Year 2014”

Mr. Schmidt was a lead consultant and facilitator and on program design for LEEP (Local Energy-Efficiency Partnership in Sudbury). A project partnered by CanmetENERGY, EnerQuality, Union Gas, Enbridge and the Ontario Power Authority and the Greater Sudbury Home Builders Association to identify with builders new energy efficient technologies that have the potential for large-scale replication.

Mr. Schmidt was a lead consultant and assisted in the development of TAP (Technology Adoption Program), which assisted builders to incorporate the energy efficient technologies identified in the LEEP program into their houses. TAP is a program sponsored by the Ontario Power Authority and administered by EnerQuality Corporation.

Mr. Schmidt is currently one of the 4 senior consultants for the Union Gas “Optimum Home Program” which offers Ontario builders the opportunities to excel in their construction process to surpass the current energy efficiency requirements of the Ontario Building Code by at least 20 percent.