HERO Program Overview

Home Efficiency Retrofit Orientation (HERO) Program
Kirk Johnson, Professor, Sustainable Energy and Building Technology (SEBT) Facilitator - Energy Advisor Bootcamp & HEAT Programs

Kirk Johnson is a Sustainability Director with 17 years experience developing sustainability programs across Canada to address Capacity Building, Energy Efficiency, and Experiential Learning opportunities in the built environment. Program Sponsors for his $200+ million in cumulative program budgets include NRCan, Canada Green Building Council (CaGBC), City of Toronto, Ontario Power Authority/IESO, HRAI, Humber College, EnerQuality, Enbridge, Toronto Hydro, and Ontario’s Ministry of Energy (MOE).

Kirk has been a Program Lead and Facilitator on sustainability programs and standards including CaGBC’s GREEN UP program, Humber College’s Energy Advisor Boot Camp, Home Efficiency Animator Training/HERO Program, Canadian Home Builders’ Association (CHBA) Net Zero Energy (NZE) house standard, NRCan’s Portfolio Manager program, EnerQuality’s Green Streets Program, ENERGY STAR for New Homes (ESNH) program and Energy Star for Multi Family (ESMF) program.

Recent Humber College projects include the Energy Advisor Boot Camp & the Home Energy Efficiency Animator (HEAT) Program.
Program Facilitators

Jack Zhou, Managing Principal
A & J Energy Consultants

Mr. Zhou is a well recognized Certified Energy Advisor (CEA) for homes in Ontario, Canada. He was voted by the low-rise residential industry to receive Evaluator of the Year 2016 award presented by EnerQuality.

He holds a Bachelor of Architectural Science degree and holds several professional designations including Certified Radon Test and Mitigation specialist, Certified Infrared Thermographer - Level 1, Residential Air System Design Technician, Residential Hydronics Design Technician, HVAC commissioning professional and Certified Energy Advisor.

With over 10 years of experience in the industry, he and his companies have inspected and certified over 4500 ENERGY STAR® for New Homes and over 6000 existing homes in Ontario. He has personally energy modelled over 5000 HOT2000 energy simulations. Currently, his company provides services to over 30 production home builders in Ontario.
Home Efficiency Retrofit Orientation (HERO) - Agenda

Module 1: Getting Started
- Introductions & Our Typical Home
- Energy Audits & Retrofit Roadmaps
- House as a System & Air Sealing Upgrades

Module 2: Improve Your Envelope
- Window & Envelope Upgrades

Module 3: Optimize Your Mechanicals
- Air Conditioning & Heating Upgrades
- Hot Water Upgrades
- Reasons to Renovate & Next Steps

Module 4: Keep it Flowing