

BASIC ACOUSTICS II

Description

The objectives of this ½ day seminar are to develop and enhance the participant's knowledge, concepts and principles in acoustics learned. It will provide further information on environmental noise and architectural acoustics measurements and techniques, and give some practical experience in measuring and controlling noise. This course provides a solid enhancement to the Basic Acoustics I course.

Topics Include

- Principles of Frequency Analysis, including Fractional Octave filters, Loudness, Noise Criteria Curves and FFT.
- Environmental acoustics factors including outdoor noise propagation, effects of weather, vegetation and land contours.
- Architectural acoustics including principles of reverberation, sound transmission through walls and floors, flanking paths for sound and vibration and assessment criteria for various occupied spaces.
- Noise control methods including sound absorbing materials, construction techniques, silencers, and barriers.

Recommended Prerequisite: Basic Acoustics Level 1 or Equivalent Experience

Instructors

M. G. (Gary) Faulkner, Ph.D, P.Eng., is a professor of Mechanical Engineering at the University of Alberta and the President of ACI Acoustical Consultants Inc. of Edmonton. Dr. Faulkner has over 30 years of extensive consulting experience in acoustics and noise control.

Steven Bilawchuk, M.Sc. P.Eng., is a Partner and Engineering Consultant with ACI Acoustical Consultants Inc. of Edmonton. Mr. Bilawchuk is also an instructor for a senior Mechanical Engineering Course at the University of Alberta in Acoustics and Noise Control.