

> INDUSTRIAL & MINING – OCCUPATIONAL

PATCHING ASSOCIATES ACOUSTICAL ENGINEERING

➤ OCCUPATIONAL NOISE ASSESSMENT

Effectively managing excessive noise levels and communicating safety concerns in the workplace is extremely important for industry today. According to Statistics Canada, more than one million adults across Canada reported having a hearing-related disability. Hearing loss can constitute a significant portion of workplace injury claims, and is often not caught until many years later. These claims are preventable through proactive management and control of occupational noise exposures.

Patching Associates can help highlight areas where hearing protection is required, determine occupational exposure limits for different shift lengths and locations, design noise control for machines and equipment rooms, increase alarm or PA system audibility, improve worker communication, and complete assessments during the design phase. Our occupational noise study can be completed using field data or through model simulation.

➤ ACCURATE MODELING AND CONTROL

Patching Associates has the expertise and experience to accurately measure, model and control noise issues at facilities to meet occupational noise limits and minimize employee related complaint and hearing loss. Utilizing sophisticated noise software including Odeon®, NoiseAtWork®, CadnaA® and SoundPlan®, Patching Associates provides accurate modeling and presentation of facility noise maps.

➤ OCCUPATIONAL NOISE COMPLIANCE

To assist with compliance monitoring, time and motion studies, or dosimetry, can quantify the need for hearing protection where a worker's exposure varies. In general, hearing protection must be worn by employees in areas greater than 85 dBA where the duration of exposure is 8 hours or more. Double protection must be worn and signage must be present when general noise levels are at or exceed 105 dBA.



Patching Associates helps industrial and mining facilities evaluate and avoid hazardous noise exposure challenges in the workplace through detailed assessment, modeling and mapping of facility noise.

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