



CSA Z1007:22
National Standard of Canada



Hearing loss prevention program (HLPP) management



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The Technical Committee would like to recognize J. M. Cousineau for his contributions to the development of this Standard before his passing.

Preface

This is the second edition of CSA Z1007, *Hearing loss prevention program (HLPP) management*. It supersedes the previous edition published in 2016.

This new edition contains major changes in all aspects of HLPP (see Clauses [1](#) to [13](#)).

CSA Group acknowledges that the development of this Standard was made possible, in part, by the financial support of the Canadian Association of Administrators of Labour Law — Occupational Safety and Health (CAALL-OSH), including Provincial and Territorial Governments, as well as the Government of Canada. CSA Group is solely responsible for the content of this Standard, and CSA Group and the funding bodies disclaim any liability in connection with the use of the information contained herein.

This Standard was prepared by the Technical Committee on Occupational Hearing Conservation under the jurisdiction of the Strategic Steering Committee on Occupational Health and Safety, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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CSA Z1007:22

Hearing loss prevention program (HLPP) management

0 Introduction

0.1 General

This Standard sets out requirements for, and provides comprehensive guidance on, the management of HLPPs designed to protect workers exposed to occupational noise.

This Standard is designed to serve as the basis for other CSA Group hearing conservation standards. Once effective management for the HLPP is established using this Standard, professionals involved in the HLPP can use detailed requirements and application guidelines in those other standards for specifying equipment and processes to be incorporated in the HLPP.

This Standard strikes a balance between the latest best practices in hearing loss prevention and current regulations in various Canadian jurisdictions. Some of the requirements, therefore, are more stringent than existing regulations.

0.2 Noise as an occupational health hazard

Noise is one of the most common occupational health hazards and a widespread problem in many workplaces. Extended exposure to high noise levels presents a hazard to hearing. Noise can also have other adverse effects, such as interfering with speech communication, reducing perception of warning sounds, causing tinnitus, increasing stress, and cardiovascular effects (e.g., changes in heart rate, increasing blood pressure, and other systemic effects). Hearing loss has a significant impact on the worker's life for which professional advice and counselling might be necessary.

0.3 Elements of a hearing loss prevention program (HLPP)

This Standard outlines the components of the HLPP for the administrator (referred to hereinafter as the "administrator") of the program in order to manage an effective HLPP. CSA Z1007 is designed to guide the person responsible for worker health and safety or the business owner in establishing and managing an HLPP. This Standard also follows the "Plan, Do, Check, and Act" cycle detailed in Annex [A](#).

An HLPP starts with the identification of a noise hazard. This identification can be as simple as noticing that it is hard to converse in a raised voice in an area or during a particular process. Once a noise hazard is suspected, the following processes are used to set up an effective HLPP (see Figure [1](#)):

- a) perform noise exposure measurements throughout the workplace;
- b) control noise exposure;
- c) provide appropriate hearing protection devices (HPDs);
- d) perform audiometric testing;
- e) post warning signs to identify noise hazard areas in the workplace;
- f) train the workforce on hazards of noise exposure, audiometric testing, and proper use of HPDs both on and off the job;
- g) keep records of all aspects of the HLPP; and
- h) implement a review process for the HLPP to monitor the program's performance.