

Table of Contents

Acknowledgements	i
Foreword	iii
Introduction	v
Chapter 1 Occupational Hearing Conservation Team	1
Chapter 2 The Effects of Noise and the Conservation of Hearing	7
Chapter 3 The Hearing Conservation Program	13
Chapter 4 Anatomy and Physiology of the Human Ear	19
Chapter 5 Causes and Management of Hearing Disorders	23
Chapter 6 Introduction to Sound	29
Chapter 7 Standards and Regulations	35
Chapter 8 Noise Measurement and Control	47
Chapter 9 Planning the Audiometric Monitoring Program	55
Chapter 10 Understanding Audiograms	69
Chapter 11 The Audiometric Monitoring Program	79
Chapter 12 The “Problem Audiogram,” the Occupational Hearing Conservationist and the Professional Supervisor	91
Chapter 13 Hearing Protection Devices	107
Chapter 14 Use and Care of Hearing Protection Devices	119
Chapter 15 Training and Motivation	125
Chapter 16 Recordkeeping and Program Evaluation	131
Glossary	139
Appendices and Index	
Appendix A OHC Scope of Practice	153
Appendix B PS Scope of Practice	157
Appendix C OSHA Noise Regulation, 29 CFR 1910.95, Occupational Noise Exposure; Hearing Conservation Amendment; Final Rule, Effective March 8, 1983	161
Appendix D List of OSHA Interpretation and Compliance Letters	177
Appendix E OSHA Regulation Checklist	185
Appendix F MSHA Noise Regulation, 30 CFR Part 62, Occupational Noise Exposure, Effective Sept, 13, 2000	191
Appendix G MSHA Regulation-Compliance Checklist	197
Appendix H FRA Noise Regulation, 49 CFR 227 and 229, FRA Final Rule on Occupational Noise Exposures for Railroad Operating Workers, Effective Feb. 26, 2007	207
Appendix I FRA Regulation-Compliance Checklist	225
Appendix J NIOSH Hearing Conservation Checklist	243
Appendix K ANSI S3.21-2004 (ANSI, 2009) American National Standard Method for Manual Pure-Tone Threshold Audiometry	251
Appendix L ANSI-ASA S12.6-2008 Methods for Measuring the Real-Ear Attenuation of Hearing Protectors	275
Appendix M ANSI S12.13 TR-2002 (R2010) American National Standard Technical Report Evaluating the Effectiveness of Hearing Conservation Programs through Audiometric Data Base Analysis	323
Appendix N Hearing Loss Statutes in the U.S. and Canada	355
Appendix O Guidelines for Baseline Revision, published by the National Hearing Conservation Association	361
Appendix P OSHA/NIOSH/NHCA Alliance Document (Best Practice Bulletin) Hearing Protection-Emerging Trends: Individual Fit Testing	365
Appendix Q Fix-a-Fit	369
Appendix R Inquiring Ears Want to Know	379
Appendix S Sample Daily Calibration Log DD2217	383
Appendix T Sample Functional Listening Check Log	387
Appendix U Engineering Noise Control (Three part <i>Update</i> series)	389
Appendix V Websites	395
Index	401