

NIOSH 582 Equivalent Course

Sampling and Evaluating Airborne Asbestos Dust

February 25-28th, 2013

EMSL Training Center
200 Route 130 North, Cinnaminson, NJ 08077



EMSL ANALYTICAL, INC.
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COST: \$950 per student for one and \$800 per student for 2 or more from the same organization.

1. Course Overview and Introduction

- 1.1 Registration and course introduction
- 1.2 Course objectives
- 1.3 Asbestos Overview (Mineralogy, types, history, uses)
- 1.4 Health effects

2. Asbestos Regulations

- 2.1 Life cycle of a Typical Asbestos Project
- 2.2 Regulatory bodies (i.e., NIOSH, EPA, OSHA, States, etc.)
- 2.3 Federal regulatory requirements
- 2.4 Compliance determination
- 2.5 Proficiency programs

3. Sampling

- 3.1 Safety and Respiratory Protection
- 3.2 Types of air filter cassettes
- 3.3 Pumps
- 3.4 Sampling calibrations
- 3.5 Types of samples (area, personal)
- 3.6 Sampling strategies
- 3.7 Optimal fiber loading

4. Phase Contrast Microscopy

- 4.1 Basics of phase optics
- 4.2 Components and function of PCM
- 4.3 Microscope alignment
- 4.4 Microscope calibration
- 4.5 Microscope maintenance and cleaning
- 4.6 Resolution, magnification, and image quality

5. NIOSH 7400 Method

- 5.1 Overview of the method
- 5.2 A and B counting rules
- 5.3 Calculations
- 5.4 Quality control
- 5.5 Introduction to Statistics

6. Sample Receiving, Handling and Preparation

- 6.1 Sample acceptance and rejection
- 6.2 Unique sample identification
- 6.3 Chain of Custody
- 6.4 Sample preparation techniques
- 6.5 Hands-on sample preparation

7. Sample Analysis and Reporting

- 7.1 Fiber counting-examples
- 7.2 Procedures
- 7.3 Fiber counting-worksheet
- 7.4 Hands-on fiber counting
- 7.5 Other fiber counting/D methods (PLM, TEM, SEM)
- 7.6 Calculations: (concentration (f/cc), density (g/cm³), blanks in relation to calculations, level of detection)

8. Homework Review, Quizzes and Final Exam

- 8.1 Filter analysis practical. Analyst must be able to demonstrate the ability to analyze 10 post-PT samples analyzed within the acceptable limits determined for the sample.
- 8.2 Written Exam (Passing grade of at least 80%)

**TO REGISTER, contact Angela Elias-Solis
at 1-800-958-6170 or FAX TO: 843-958-6175**

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Niosh 582 Training Manual

Peter M. Eller



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summarize both NIOSH research on the health hazards of asbestos and NIOSH recommendations on workplace exposure to asbestos Also contains a complete list of NIOSH documents on asbestos The citations are arranged alphabetically by document title or author within one of the following 6 categories numbered publications testimony journal articles and conference proceedings contract reports grant reports and miscellaneous reports *Public Health Reports* ,1986

Publication Catalog of the U.S. Department of Health and Human Services United States. Department of Health and Human Services, **Handbook of Modern Hospital Safety** William Charney,2009-07-28 It is ironic that those whose job it is to save lives often find themselves injured in the course of performing their duties In fact according to the Bureau of Labor Statistics healthcare workers have higher injury rates than agriculture workers miners and construction workers The Handbook of Modern Hospital Safety Second Edition covers expo *Oncology Rehabilitation E-Book* Deborah Doherty,Chris Wilson,Lori Boright,2022-07-23 Coverage of physical therapy patient management includes acute care outpatient and multidisciplinary clinical settings along with in depth therapeutic management interventions Content on the continuum of cancer care addresses the primordial primary secondary tertiary and quaternary stages in prevention and treatment Focus on clinicians includes the professional roles responsibilities self care and values of the oncology rehabilitation clinician as an integral member of the cancer care team Information on inseparable contextual factors helps in dealing with administrative infrastructure and support advocacy payment and reimbursement of rehabilitation as well as public policy Evidence Summary and Key Points boxes highlight important information for quick at a glance reference Clinical case studies and review questions enhance your critical thinking skills and help you prepare for board certification specialty practice and or residency Enhanced eBook version included with print purchase allows you to access all of the text figures and references from the book on a variety of devices Resources in the eBook include videos board review questions case studies and a curriculum map to highlight and demonstrate the correlation to the requirements for Oncology Rehabilitation Residency programs and the board certification exam Guidebook approach provides immediate meaningful application for the practicing oncology rehabilitation clinician **Pedretti's Occupational Therapy - E-Book** Heidi McHugh Pendleton,Winifred Schultz-Krohn,2017-03-10 NEW Coverage of the Occupational Therapy Practice Framework OTPF 3 increases your understanding of the OTPF 3 and its relationship to the practice of occupational therapy with adults who have physical disabilities NEW All new section on the therapeutic use of self which the OTPF lists as the single most important line of intervention occupational therapists can provide NEW Chapter on hospice and palliative care presents the evidence base for hospice and palliative care occupational therapy describes the role of the occupational therapist with this population within the parameters of the third edition of the Occupational Therapy Practice Framework OTPF 3 and recommends clinician self care strategies to support ongoing quality care UPDATED Completely revised Spinal Cord Injury chapter addresses restoration of available musculature self care independent living skills short and long term equipment needs

environmental accessibility and educational work and leisure activities It looks at how the occupational therapist offers emotional support and intervention during every phase of the rehabilitation program UPDATED Completely revised chapter on low back pain discusses topics that are critical for the occupational therapist including anatomy client evaluation interventions areas client centered occupational therapy analysis and intervention strategies for frequently impacted occupations UPDATED Revised Special Needs of the Older Adult chapter now utilizes a top down approach starting with wellness and productive aging then moving to occupation and participation in meaningful activity and finally highlighting body functions and structures which have the potential to physiologically decline as a person ages NEW and EXPANDED Additional section in the Orthotics chapter looks at the increasing array of orthotic devices available in today s marketplace such as robot assisted therapy to support the weak upper extremity UPDATED Revised chapters on joint range of motion and evaluation of muscle strength include new full color photos to better illustrate how to perform these key procedures EXPANDED New information in the Burns and Burn Rehabilitation chapter including expanded discussions on keloid scars silver infused dressings biosynthetic products the reconstructive phase of rehabilitation and patient education UPDATED and EXPANDED Significantly updated chapter on amputations and prosthetics includes the addition of a new threaded case study on Daniel a 19 year old combat engineer in the United States Army who suffered the traumatic amputation of his non dominant left upper extremity below the elbow

Handbook of Occupational Safety and Health Lawrence Slote, 1987-07-24 This comprehensive reference source uses techniques and methods from various disciplines applicable to occupational safety and health it satisfying the need for a standard reference work in this rapidly growing field The book is divided into nine parts related to all aspects of the field ergonomics insurance occupational safety and health management and information occupational safety and health training programs analytical tools economic factors and safety and the law Individual chapters discuss how to deal with the troubled employee how to conduct an accident investigation how to ensure and maintain quality in a medical surveillance program how to use workers compensation data to identify high risk groups how to apply simulation modelling and analysis to occupational safety and health how to survive workplace litigation and much more

Introduction to Human Factors and Ergonomics Robert Bridger, 2017-10-30 Building on the success of previous editions the 4th edition of *Introduction to Human Factors and Ergonomics* provides a comprehensive and up to date introduction to the field The new edition places the subject matter into a system context using a human machine model to structure the chapters and a knowledge application model to structure the organisation of material in each chapter Every chapter covers Core Concepts Basic Applications Tools and Processes and System Integration issues regardless of topic Includes over 200 exercises and essays at least ten per chapter An Instructor s Manual A Guide to Tutorials and Seminars and and over 500 powerpoint slides are available for academic users from the publisher All chapters contain HFE Workshop sections with practical guidance and worked examples Please see the TOC for more information

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