

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.
LABORATORY • 200 ROUTE 130 NORTH • CINNAMINSON, NJ 08077 • 609.683.8170

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 samplers (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 (f/cm²), 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 1-866-958-6170 or FAX TO: 843-958-6175**

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Niosh 582 Manual

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Niosh 582 Manual:

Laboratory Quality Assurance Manual Eric L. Botnick, Ram S. Suga, Kenneth T. White, 2005 *NIOSH Manual of Analytical Methods*, 1990 *Manuals Combined: NAVY SAFETY AND OCCUPATIONAL HEALTH PROGRAM MANUAL & MARINE CORPS OCCUPATIONAL SAFETY AND HEALTH (OSH) PROGRAM MANUAL*, 1 Purpose To implement policy changes recommended by the Naval Inspector General NAVINSGEN to Office of the Chief of Naval Operations Special Assistant for Safety Matters OPNAV N09F and to define and outline the conduct and reporting of the self assessment process for safety and occupational health SOH programs 1 PURPOSE The Marine Corps Occupational Safety and Health OSH Program Manual promulgates the requirements and establishes procedures to implement the reference 2 INFORMATION This Manual and all references provide the requirements and guidance for commanders and Marine Corps OSH Program professionals to identify and manage risk maintain safe and healthful operational environments and meet the Mission Essential Task List METL requirements 3 SCOPE This Manual is applicable to all Marine Corps activities including nonappropriated fund activities and operations that are under the sponsorship of the Marine Corps Community Services MCCS Director or unit MCCS officers for the purposes of morale welfare and recreation This Manual shall also apply to activities that are involved in the acquisition operation sponsorship or maintenance of all facilities activities and programs CMC SD will provide guidance upon request for program responsibilities on contractors e g public private venture etc 4 EFFECTIVE DATE This Manual is effective the date signed Prior to implementation of this Manual activities must where applicable discharge their labor relation s obligations Assistance and guidance may be obtained from CMC MPC DISTRIBUTION STATEMENT A Approved for public release distribution is unlimited *NIOSH Publications Catalog* National Institute for Occupational Safety and Health, 1987 Cumulative catalog of all National Institute for Occupational Safety and Health NIOSH numbered publications health hazard evaluations HHE and technical assistance TA reports contract reports and other educational and training materials **Sampling and Evaluating Airborne Asbestos Dust (582).**, 1989 **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 exposure paradigms and offers solutions and models of protection for these individuals presenting the latest science and intervention strategies that have proven successful in the scientific community Extensively revised this second edition explores a host of hazardous conditions that are faced by healthcare workers in today s hospitals including infection and infectious diseases back injuries needlesticks workplace violence slip trip and fall injuries ergonomic issues electrocautery smoke toxic drugs ethylene oxide aldehydes pentamidine ribavirin In this long awaited update to William Charney s seminal work experts from leading hospitals universities and

health organizations explore these health risks and suggested preventive measures discuss recent research and new information on technology to protect workers cover new legislation and regulations and provide insight into the philosophy of creating a safe hospital culture

Occupational Exposure to Diacetyl and 2,3-pentanedione Lauralynn Taylor McKernan, 2016 Diacetyl and its substitute 2,3-pentanedione are widely used as flavoring compounds The National Institute for Occupational Safety and Health NIOSH objective in establishing recommended exposure limits RELs for diacetyl and 2,3-pentanedione is to reduce the risk of respiratory impairment decreased lung function and the severe irreversible lung disease obliterative bronchiolitis associated with occupational exposure In this Criteria Document NIOSH reviews the scientific literature concerning potential health effects toxicology and risk assessment pertaining to diacetyl and 2,3-pentanedione Recommendations are provided on engineering controls work practices and personal protective equipment to prevent and control workplace exposures to diacetyl and 2,3-pentanedione NIOSH website

Handbook of Environmental Fate and Exposure Data for Organic Chemicals Philip H. Howard, 1989-04-30 This 5 volume set allows you to assess the health and environmental effects of chemicals by determining the routes of exposure of the chemical to sensitive organisms Environmental Fate and Exposure of Organic Chemicals provides relevant facts on how individual chemicals behave in the environment and how humans and environmental organisms are exposed to the chemicals during their production rise transport and disposal Each chemical is prepared by one of the best known organizations in environmental fate and exposure and is peer reviewed by a panel of expert scientists The information on each chemical includes all experimental values and references for physical properties all chemical fate studies and all available monitoring data and interpretative summaries

Handbook of Human Vibration M. J. Griffin, 2012-12-02 Today the human body is exposed to vibration not only while traveling but also during leisure and domestic activities and in many occupations This volume summarizes the current understanding of the many human responses to vibration Divided into two parts this book deals with whole body vibrations and hand transmitted vibration In each part the experimental data and appropriate models are presented in detail so that readers can address practical problems An extensive guide to national and international standards is provided and a large multidisciplinary glossary of terms assists in understanding the relevant technical and medical jargon This comprehensive reference volume is accessible to all those interested in human vibration medical doctors engineers lawyers scientists and health and safety officials and administrators LK uses the following bulleted list_ This new text features An up to date statement of current knowledge on human responses to vibration A comprehensive glossary of terms in current use in the fields of vibration and human response An extensive bibliography and guide to national and international standards

Handbook of Human Factors and Ergonomics in Health Care and Patient Safety Pascale Carayon, 2006-09-08 A complete resource this handbook presents current knowledge on concepts and methods of human factors and ergonomics and their applications to help improve quality safety efficiency and effectiveness in patient care It provides specific

information on how to analyze medical errors with the fundamental goal to reduce such errors and the harm to the patient. *Aerosol Measurement* Pramod Kulkarni, Paul A. Baron, Klaus Willeke, 2011-07-12 *Aerosol Measurement Principles Techniques and Applications* Third Edition is the most detailed treatment available of the latest aerosol measurement methods Drawing on the know how of numerous expert contributors it provides a solid grasp of measurement fundamentals and practices a wide variety of aerosol applications This new edition is updated to address new and developing applications of aerosol measurement including applications in environmental health atmospheric science climate change air pollution public health nanotechnology particle and powder technology pharmaceutical research and development clean room technology integrated circuit manufacture and nuclear waste management **Public Health Reports**, 1986 **The ^AOxford Handbook of Personnel Assessment and Selection** Neal Schmitt, 2013-12-15 The Oxford Handbook of Personnel Assessment and Selection distills the science and practice of employee selection Now in paperback this volume includes essential information about the validation process individual difference constructs and measures and performance outcomes and measures and will be a comprehensive and authoritative reference and training tool in the field Montana Administrative Register, 1995

Kodak's Ergonomic Design for People at Work The Eastman Kodak Company, 2003-10-10 Written for those who are on the job but not necessarily professionally trained ergonomists the principles and approaches detailed in this highly regarded guide have all been implemented in real world workplace environments and proven successful in reducing the potential for occupational injury increasing the number of people who can perform a job and improving employee performance on the job More than 150 clear and informative illustrations and tables help convey data and information in eight sections Ergonomics design philosophy Human reliability and information transfer Evaluation of job demands Work design Workplace design Manual handling in occupational tasks Equipment design Environment **Safety and Health at Work**, 2001 **Electron Microscopy and X-ray Applications to Environmental and Occupational Health Analysis** Philip A. Russell, Alan E. Hutchings, 1978 **Hazardous Materials Reference Book** Daniel J. Davis, Julie A. Davis, 2006-01-23 This one stop reference gives firefighters and emergency response personnel immediate access to the page number where chemical data on nearly 1 000 substances can be located in 13 of the most frequently used references It speeds up research time by alphabetizing chemicals by name and with UN NA numbers Publication Catalog of the U.S. Department of Health and Human Services United States. Department of Health and Human Services, *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

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Table of Contents Niosh 582 Manual

1. Understanding the eBook Niosh 582 Manual
 - The Rise of Digital Reading Niosh 582 Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Niosh 582 Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Niosh 582 Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Niosh 582 Manual
 - Personalized Recommendations
 - Niosh 582 Manual User Reviews and Ratings
 - Niosh 582 Manual and Bestseller Lists
5. Accessing Niosh 582 Manual Free and Paid eBooks
 - Niosh 582 Manual Public Domain eBooks
 - Niosh 582 Manual eBook Subscription Services
 - Niosh 582 Manual Budget-Friendly Options
6. Navigating Niosh 582 Manual eBook Formats

- ePub, PDF, MOBI, and More
- Niosh 582 Manual Compatibility with Devices
- Niosh 582 Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Niosh 582 Manual
 - Highlighting and Note-Taking Niosh 582 Manual
 - Interactive Elements Niosh 582 Manual
- 8. Staying Engaged with Niosh 582 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Niosh 582 Manual
- 9. Balancing eBooks and Physical Books Niosh 582 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Niosh 582 Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Niosh 582 Manual
 - Setting Reading Goals Niosh 582 Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Niosh 582 Manual
 - Fact-Checking eBook Content of Niosh 582 Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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Bringing up boys : Dobson, James C., 1936 Aug 25, 2020 — x, 269 pages ; 24 cm. One of the country's most respected parenting experts & bestselling author of Dare to Discipline, offers advice ... Raising Boys: Routine Panic - Part 1 (Transcript) James Dobson, interacting with the studio audience during his Bringing Up Boys ... Or call us toll free, (877) 732-6825. I pray that God will bless you in 2020 ... Bringing up boys : Dobson, James C., 1936 May 11, 2022 — Publication date: 2001 ; Topics: Parenting -- Religious aspects -- Christianity, Boys -- Religious life ; Publisher: Wheaton, Ill. : Tyndale House ... Bringing Up Boys: Dobson, James C. In the runaway bestseller Bringing Up Boys, Dr. Dobson draws from his experience as a child psychologist and family counselor, as well as extensive research, to ... Bringing up Boys - James Dobson.pdf Mar 17, 2022 — Online file sharing and storage - 10 GB free web space. Easy registration. Share your files easily with friends, family, and the world on ... Bringing Up Boys by James Dobson on Free Audio Book ... "Bringing Up Boys"--a must-read book for parents, teachers, social workers, youth leaders, counselors--anyone involved in the challenge of turning boys into ... Raising Boys - Part 1 with Dr. James Dobson's Family Talk Bringing Up Boys Sep 1, 2014 — Sensible advice and caring encouragement on raising boys from the nation's most trusted parenting authority, Dr. James Dobson. Bringing Up Boys Listen Free to Bringing Up Boys audiobook by James C. Dobson with a 30 Day Free Trial! Stream and download audiobooks to your computer, tablet and iOS and ... Bringing Up Boys by Dr. James Dobson Book In Bringing Up Boys, Dr. Dobson tackles questions and offers advice and encouragement based on a firm foundation of biblical principles. How Many Bugs in a Box?: A Pop-up... by Carter, David A. How Many Bugs in a Box?: A Pop-up... by Carter, David A. How Many Bugs in a Box? by Carter, David A. Inside each bright box are bugs to count from one to ten. Young children will laugh and learn as they lift open the boxes and find colorful, comical bugs that ... How Many Bugs in a Box?: A Pop-up Counting Book Here is the book that started the Bugs phenomenon!

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