

Lab Safety Manual Template

Introduction

Each Principal Investigator (PI) should develop and maintain a Lab Safety Manual for their laboratory. A lab safety manual: 1) contains safety information relevant to the laboratory's specific hazards and research materials, 2) serves as a training tool for lab personnel and should include documentation of such training, and 3) must be readily available to all research personnel in the lab.

A lab safety manual should include:

- Lab safety policies and Standard Operating Procedures (SOPs)
- Lab safety program key personnel
- Lab contact information
- Lab security procedures
- Hazard assessment information and Personal Protective Equipment (PPE) selection
- Lab emergency procedures
 - Spill response
 - Medical response
 - Lab- and building-specific evacuation information
- Descriptions of lab incidents, injuries, and corrective actions
- Safety training records for lab personnel
- Safety program correspondence

The lab safety manual should also include a Biosafety Manual for biological materials, a Chemical Hygiene Plan (CHP) for chemicals, a Radiation Permit for radioactive materials, and a Laser Safety Plan for Class 3b and 4 lasers.

Biosafety Manual – Laboratories operating at Biosafety Level 2 (BL-2) must dedicate a portion of the lab manual to Biosafety as per Biosafety in Microbiological and Biomedical Laboratories (BMBL) 5th Edition <http://www.cdc.gov/od/ohs/biosfty/bmbIS/bmbIStoc.htm>.

A Biosafety Manual should include:

- Lab-specific biosafety policies (e.g. hand-washing, food storage and eating, restricted access, daily surface decontamination, emergency spill and clean up procedures, use of PPE, etc.)
- Project-specific safety SOPs and copies of current Institutional Biosafety Committee (IBC) project registrations and approval letters
- DRS fact sheets on campus safety policies (e.g. Treatment and Disposal of Biological Materials, Handling and Disposal of Lab Sharps, etc.) which are available at: <http://www.drs.illinois.edu/bss/factsheets/>
- UIUC Exposure Control Plan (required only if working with human materials)
- Relevant sections of the BMBL (e.g. Sections I, II, & III pertaining to BL-1 and BL-2 practices; Appendix H pertaining to Working with Human and Other Primate Cells and Tissues, if applicable; Organism-specific information; etc.)
- Records/documentation of any required biosafety-related training (including reading and understanding Biosafety manual contents and lab policies)



Princeton Lab Safety Manual

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Princeton Lab Safety Manual:

Biosecurity Ryan Burnette, 2013-07-22 Learn how to assess and prevent biosecurity threats to protect public health and national security With contributions from experts in all facets of biosecurity this book explains the fundamental elements of biosecurity as well as the related concepts of biosafety and biosurety detailing how all three concepts fit within the framework of biodefense Readers are then given the tools needed to assess and prevent biosecurity threats and vulnerabilities The book explores the nature of biosecurity threats to research laboratories as well as to agriculture food and mass transit Moreover readers will learn how to apply principles of biosecurity to assess epidemics and protect public health Biosecurity takes a detailed look at today's biosecurity policy explaining how it is likely to evolve given current and potential threats to national security The authors stress the importance of education and advocacy helping readers develop effective programs to build public awareness and preparedness The book also presents a novel tool to assess the effectiveness of laboratory biosafety and biosecurity programs Biosecurity is divided into four parts Part I An Introduction to Biosecurity Part II Elements of Biosecurity Part III Biosecurity in Various Sectors Part IV Biosecurity Policy Bioterrorism and the Future This book will instill a deep understanding of what biosecurity is and what it is not It urges readers to think about the importance of biosecurity as it relates to national security safety and health By exposing major flaws in global biosecurity thinking Biosecurity sets forth a clear pathway to correct those errors and build stronger biosecurity programs **Air Force Manual** United States. Department of the Air Force, 1970 *Emerging Technologies in Occupational Health and Safety* Somayeh Farhang Dehghan, Hamzeh Mohammadi, Monireh Khadem, Luis Möckel, 2023-03-13 **Proceedings**, 1964 **The Chemistry Book** Derek B. Lowe, 2016-02-09 From atoms and fluorescent pigments to sulfa drug synthesis and buckyballs this lush and authoritative chronology presents 250 milestones in the world of chemistry As the central science that bridges biology and physics chemistry plays an important role in countless medical and technological advances Covering entertaining stories and unexpected applications chemist and journalist Derek B Lowe traces the most important and surprising chemical discoveries **Chemical Warfare Agents** Brian J. Lukey, James A. Romano Jr., Harry Salem, 2019-04-11 The first edition of this book Chemical Warfare Agents Toxicity at Low Levels was published just prior to the terrorist attacks of September 11 2001 The second edition titled Chemical Warfare Agents Pharmacology Toxicology and Therapeutics included new epidemiological and clinical studies of exposed or potentially exposed populations new treatment concepts and products improved organization of the national response apparatus addressing the potential for CWA terrorism and improved diagnostic tests that enable rapid diagnosis and treatment Since the second edition the chemical warfare agent community has worked hard to advance research for protection and treatment and develop improve response approaches for individuals and definitive care Consequently in addition to updating previous chapters Chemical Warfare Agents Biomedical and Psychological Effects Medical Countermeasures and Emergency Response Third Edition features several new chapters that

address the Syrian War chemical destruction the Organisation for the Prohibition of Chemical Weapons biomarkers for chemical warfare agent exposure field sensors aircraft decontamination lung human on a chip chemical warfare response decision making and other research advancements Features Describes the newest medical interventions and the latest technologies deployed in the field as well as developments in the international response to CW usage highlighting recent events in the Middle East Discusses the latest in organizational interagency partitioning in terms of responsibilities for emergency response not just in the United States but at the international level whether prevention mitigation medical care reclamation or medico legal aspects of such response Contains the most current research from bench level experts The third edition contains the most up to date and comprehensive coverage of the question of chemical warfare agent employment on the battlefield or in terrorism Edited by workers that have been in the field for 35 years it remains faithful to the scientific constants while evaluating and crediting the advances by the industry that have made us safer **Scientific Integrity** Francis L. Macrina, 2014-07-01 This widely adopted textbook provides the essential content and skill building tools for teaching the responsible conduct of scientific research Scientific Integrity covers the breadth of concerns faced by scientists protection of animal and human experimental subjects scientific publication intellectual property conflict of interest collaboration record keeping mentoring and the social and ethical responsibilities of scientists Learning activities and resources designed to elucidate the principles of Scientific Integrity include Dozens of highly relevant interactive case studies for discussion in class or online Numerous print and online resources covering the newest research guidelines regulations mandates and policies Discussion questions role playing exercises and survey tools to promote critical thought Documents including published rules of conduct sample experimentation protocols and patent applications The new edition of Scientific Integrity responds to significant recent changes new mandates policies laws and other developments in the field of responsible conduct of research Dr Macrina plants the seeds of awareness of existing changing and emerging standards in scientific conduct and provides the tools to promote critical thinking in the use of that information Scientific Integrity is the original turnkey text to guide the next generations of scientists as well as practicing researchers in the essential skills and approaches for the responsible conduct of science Proceedings of the Conference ,1965 Bulletin ,1965 Bulletin Labor Standards Bureau,1964

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Table of Contents Princeton Lab Safety Manual

1. Understanding the eBook Princeton Lab Safety Manual
 - The Rise of Digital Reading Princeton Lab Safety Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Princeton Lab Safety 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 Princeton Lab Safety Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Princeton Lab Safety Manual
 - Personalized Recommendations

- Princeton Lab Safety Manual User Reviews and Ratings
- Princeton Lab Safety Manual and Bestseller Lists
- 5. Accessing Princeton Lab Safety Manual Free and Paid eBooks
 - Princeton Lab Safety Manual Public Domain eBooks
 - Princeton Lab Safety Manual eBook Subscription Services
 - Princeton Lab Safety Manual Budget-Friendly Options
- 6. Navigating Princeton Lab Safety Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Princeton Lab Safety Manual Compatibility with Devices
 - Princeton Lab Safety Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Princeton Lab Safety Manual
 - Highlighting and Note-Taking Princeton Lab Safety Manual
 - Interactive Elements Princeton Lab Safety Manual
- 8. Staying Engaged with Princeton Lab Safety Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Princeton Lab Safety Manual
- 9. Balancing eBooks and Physical Books Princeton Lab Safety Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Princeton Lab Safety Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Princeton Lab Safety Manual
 - Setting Reading Goals Princeton Lab Safety Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Princeton Lab Safety Manual
 - Fact-Checking eBook Content of Princeton Lab Safety 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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