CDC 4B051

Bioenvironmental Engineering Journeyman

Volume 2. Introduction to Occupational and Environmental Health Risk Management



Air Force Career Development Academy Air University Air Education and Training Command

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Material in this volume is reviewed annually for technical accuracy, adequacy, and currency. For Weighted Airman Promotion System (WAPS) Specialty Knowledge Test (SKT) purposes, the examinee should check the *Enlisted Promotions References and Requirements Catalog* to determine the correct references to study.

THIS IS Volume 2 of Career Development Course (CDC) 4B051, *Bioenvironmental Engineering Journeyman*. Comprised of five individual units, this volume is designed to meet the proficiency code requirements of presenting a comprehensive "picture" of the occupational and environmental health risk assessment and its application(s) in both garrison and deployed environments.

Material in this unit has been progressively written to provide insight into the relationship of the occupational and environmental health (OEH) program to the Defense Occupational and Environmental Health Readiness System (DOEHRS), as well as determining and recommending risk hazards.

Unit 1 of this volume describes foundational preventive medicine principles of the occupational and environmental health program, including the documents and information management system that support the BEE's duties.

Unit 2 provides an overview of the occupational health program and strategies, models and assessment codes for applying occupational and environmental health (OEH) risk management control concepts.

Unit 3 describes biological hazards and methods for identifying, analyzing, and controlling them.

Unit 4 discusses strategies and methods for sampling chemical hazards in the same manner.

Unit 5 describes physical hazards including noise, ergonomics and thermal stress. It discusses the techniques for analyzing and controlling these hazards.

A glossary is included for your use.

Code numbers on figures are for preparing agency identification only.

The use of a name of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force.

To get a response to your questions concerning subject matter in this course, or to point out technical errors in the text, unit review exercises, or course examination, call or write the author using the contact information provided in this volume.

NOTE: Do not use Air Force Instruction (AFI) 38–402, *Airmen Powered by Innovation and Suggestion Program*, to submit corrections for printing or typographical errors. For Air National Guard (ANG) members, do not use Air National Guard Instruction (ANGI) 38–401, *Suggestion Program*.

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For Guard and Reserve personnel, this volume is valued at hours and points.

NOTE:

In this volume, the subject matter is divided into self-contained units. A unit menu begins each unit, identifying the lesson headings and numbers. After reading the unit menu page and unit introduction, study the section, answer the self-test questions, and compare your answers with those given at the end of the unit. Then complete the unit review exercises.

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