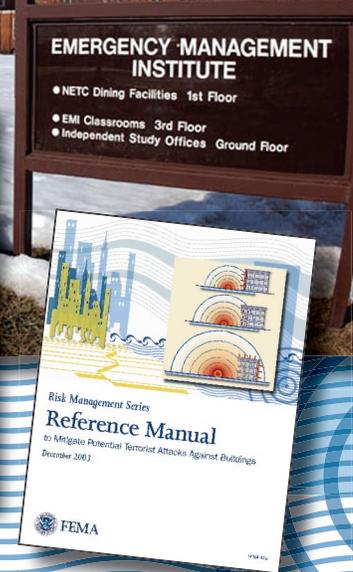


Instructor Guide



Risk Management Series

Building Design for Homeland Security

Instructor Guide

January 2004



FEMA

RISK MANAGEMENT SERIES

Building Design for
Homeland Security

PROVIDING PROTECTION TO PEOPLE AND BUILDINGS

Instructor Guide



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BACKGROUND AND ACKNOWLEDGMENTS

BACKGROUND

The Federal Emergency Management Agency (FEMA) developed the *Building Design for Homeland Security Course (E155)*, to provide needed information on how to mitigate the effects of potential terrorist attacks.

The purpose of E155 is to familiarize students with assessment methodologies available to identify the relative level of risk for various threats, including blast and chemical, biological, or radiological. The students will be introduced to FEMA 426 and will be asked to provide cost-effective mitigation measures for a range of manmade hazards. The primary target audience for this course includes engineers, architects, and building officials.

ACKNOWLEDGMENTS

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This course was prepared under contract to FEMA. It will be revised periodically, and comments and feedback to improve future editions are welcome. Please send comments and feedback by e-mail to riskmanagementseriespubs@dhs.gov



AGENDA

Day 1

Instructor

8:30 a.m.	Unit I – Introduction and Course Overview	Michael Chipley, Ph.D.
10:00 a.m.	Break	Eric Letvin, Esq.
10:15 a.m.	Unit II – Asset Value Assessment	Eric Letvin, Esq.
11:30 a.m.	Lunch	Eric Letvin, Esq.
12:30 p.m.	Unit III – Threat/Hazard Assessment	Michael Chipley, Ph.D.
1:45 p.m.	Break	Eric Letvin, Esq.
2:00 p.m.	Unit IV – Vulnerability Assessment	Michael Kaminskas, P.E.
3:45 p.m.	Break	Eric Letvin, Esq.
4:00 p.m.	Unit V – Risk Assessment/Risk Management	Eric Letvin, Esq.
4:45 p.m.	Day 1 Wrap-up and Day 2 Forecast	Eric Letvin, Esq.
5:00 p.m.	Dinner	Eric Letvin, Esq.



AGENDA

Day 2

Instructor

8:30 a.m.	Day 1 Review and Day 2 Overview	Eric Letvin, Esq.
8:45 a.m.	Unit V – Risk Assessment/Risk Management (continued)	Michael Chipley, Ph.D.
9:15 a.m.	Unit VI – Explosive Blast	Michael Kaminskas, P.E.
10:15 a.m.	Break	Eric Letvin, Esq.
10:30 a.m.	Unit VII – Chemical, Biological, and Radiological Measures	Michael Chipley, Ph.D.
11:30 a.m.	Lunch	Eric Letvin, Esq.
12:30 p.m.	Written Exam	Michael Chipley, Ph.D. Michael Kaminskas, P.E.
1:00 p.m.	Written Exam Review	Michael Chipley, Ph.D. Michael Kaminskas, P.E.
1:30 p.m.	Break	Eric Letvin, Esq.
1:45 p.m.	Unit VIII – Site and Layout Design Guidance	Chris Arnold, FAIA
3:30 p.m.	Break	Eric Letvin, Esq.
3:45 p.m.	Unit VIII – Site and Layout Design Guidance (continued)	Chris Arnold, FAIA
4:30 p.m.	Day 2 Wrap-up and Day 3 Forecast	Eric Letvin, Esq.
5:00 p.m.	Dinner	Eric Letvin, Esq.



AGENDA

Day 3

Instructor

8:30 a.m.	Day 2 Review and Day 3 Overview	Eric Letvin, Esq.
8:45 a.m.	Unit IX – Building Design Guidance	Michael Kaminskas, P.E.
10:15 a.m.	Break	Eric Letvin, Esq.
10:30 a.m.	Unit IX – Building Design Guidance (continued)	Michael Kaminskas, P.E.
11:30 a.m.	Lunch	Eric Letvin, Esq.
12:30 p.m.	Unit X – Electronic Security Systems	Eric Letvin, Esq.
1:15 p.m.	Break	Eric Letvin, Esq.
1:30 p.m.	Unit XI – Finalization of Case Study Results [Goal is to brief building owner on prioritized recommendations and justifications for security work.]	Michael Chipley, Ph.D. Michael Kaminskas, P.E.
2:15 p.m.	Break	Eric Letvin, Esq.
2:30 p.m.	Unit XI – Presentation of Group Case Study Results and Discussion (continued) [Assumes 6 teams and 10 minutes per team to present and 5 minutes per team to discuss.]	Michael Chipley, Ph.D. Michael Kaminskas, P.E.
4:00 p.m.	Unit XII – Course Wrap-up	Eric Letvin, Esq.
5:00 p.m.	Adjourn	Eric Letvin, Esq.
