
Table of Contents

Introduction

Module #1: Background Topics

Background on the CSEPP	1-2
Background on the Chemical Stockpile.....	1-4
Sign-on to WebPuff	1-14
Math Background.....	1-15
Scientific notation	1-16
Units of measure	1-20
Calculating surface area.....	1-26
DETech CHPConvert Utility	1-28

Module #2: Background Chemical Hazard Prediction Topics

Chemical Agents and their Properties.....	2-2
Concentration, Peak Concentration, Dosage, and Dose	2-21
Toxicological Benchmarks	2-44
Munitions	2-81
Chemical Agent Detectors/Measuring Devices	2-140

Module #3: Chemical Hazard Prediction – Basic Concepts

Introduction to CHP Concepts	3-2
Basics of Dispersion Models	3-18
Source Term Modeling Techniques.....	3-38
Meteorology	3-102
MCEs, ERPS, & Other Scenarios of Interest.....	3-146

Module #4: Using WebPuff for CHP – The Basics

Introduction to WebPuff	4-2
Model Inputs, Model Simulation, and Model Outputs	4-5
Data Entry for Various Release Types.....	4-60

Module #5: Chemical Hazard Prediction – Intermediate Concepts

Plume Tip & Tail Time	5-2
The Risk Envelope.....	5-3
Changing Meteorology	5-8
Protective Action Options.....	5-13
Reasons for Doing a Hazard Assessment	5-26

Module #6: Using WebPuff for CHP – Intermediate

GIS Tab: Animated Map and Time Steps	6-2
Advanced Parameters	6-7
PARs & PADs	6-16
Using the Event Mode	6-33
Other WebPuff Features	6-50

Module #7: Surviving a CSEPP Exercise

Tips for an Exercise: Before, During and After the Exercise	7-1
Why & How to Prepare for an Exercise	7-2
Common Pitfalls in Exercises	7-13
Top Rules of Hazard Analysis	7-19

Reference Packet

Acronym List	3
Metric Prefix List.....	7
English vs. Metric (SI) Conversion Chart.....	9
Metric (SI) Convention	11
Total Remaining Munitions by Site	
As of 21-Dec-08.....	13
Hazard Assessment: Excerpt from DA PAM 50-6,	
Section 3-5.c, 26 March 2003	15
AMCCB memo, dtd 30 Apr 97, Subj: MCEs for Daily Operations.....	17
Personal Protective Equipment Clothing Levels	27