



# Corps Risk Analysis Gateway

## Corps Risk Analysis Training Resources

Series:

Corps Risk Analysis Gateway Resources

Prepared by:

Institute for Water Resources

U.S. Army Corps of Engineers



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## Corps Risk Analysis Training Resources

This list provides Corps training resources related to Risk Analysis. It is organized by topic. A resource may appear in more than one list. The topics include:

- Assessment
- Communication
- Management
- Risk Analysis

### Assessment

#### **03 Risk Technology Workshop: Integrated Risk Management (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Define and discuss risk, risk management, Identify the elements of the risk management model proposed for the Corps. This presentation was part of a series of risk workshops that were held in each division in 2009 or 2010.

Source file: Session 3 Integrated Risk Management 2010.pdf ([Series](#))

Keywords: assessment

#### **05 Risk Technology Workshop: Qualitative Risk Assessment (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Source file: Session 5 Qualitative risk assessment 2010.pdf ([Series](#))

Keywords: assessment

#### **06 Risk Technology Workshop: Uncertainty and Variability (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Source file: Session 6 Uncertainty and Variability 2010.pdf ([Series](#))

Keywords: assessment

#### **07 Risk Technology Workshop: Probabilistic Scenario Analysis (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Source file: Session 7a Probabilistic Scenario Analysis 2010.pdf ([Series](#))

Keywords: assessment

**08 Risk Technology Workshop: Probability Review (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Source file: Session 7b Probability Review 2010.pdf ([Series](#))

Keywords: assessment

**09 Risk Technology Workshop: Choosing a Probability Distribution (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Source file: Session 7c Choosing a Probability Distribution 2010.pdf ([Series](#))

Keywords: assessment

**10 Risk Technology Workshop: Risk & Reliability for USACE Civil Works (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Source file: Session 8a - Background on Risk and Reliability for USACE Civil.pdf ([Series](#))

Keywords: assessment

**11 Risk Technology Workshop: What is Risk and Reliability? (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Risk-based vs. traditional methods.

Source file: Session 8b - What is Risk and Reliability.pdf ([Series](#))

Keywords: assessment

**12 Risk Technology Workshop: Statistics Review (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Source file: Session 8c - Statistics Review.pdf ([Series](#))

Keywords: assessment

**13 Risk Technology Workshop: Engineering Reliability Concepts (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Source file: Session 9a - Engineering Reliability Concepts.pdf ([Series](#))

Keywords: assessment

**14 Risk Technology Workshop: @Risk Demo - Monte Carlo Simulation (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Source file: Session 9b - @Risk Demo - Monte Carlo Simulation.pdf ([Series](#))

Keywords: assessment

**15 Risk Technology Workshop: @Risk - Reliability Example (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

This presentation was part of a series of risk workshops that were held in each division in 2009 or 2010.

Source file: Session 9c - @Risk Reliability Example.pdf ([Series](#))

Keywords: assessment

**16 Risk Technology Workshop: IPET Risk Assessment (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Source file: Session 9d - IPET Risk Assessment.pdf ([Series](#))

Keywords: assessment

**17 Risk Technology Workshop: Expert Opinion Elicitation (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Source file: Session 9e - Expert Opinion Elicitation.pdf ([Series](#))

Keywords: assessment, communication, management

**18 Risk Technology Workshop: Consequences (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Source file: Session 10 Consequences.pdf ([Series](#))

Keywords: assessment

**20 Risk Technology Workshop: ALL SLIDES (July 2010 Workshop)**

—David Moser, Charlie Yoe, and Robert Patev (2010)

All slides used in the July 2010 Risk Technology Workshop.

Source file: Risk Tech Workshop\_ALL.pdf ([Series](#))

Keywords: assessment, communication, management, risk analysis

**Risk for Planning Associates 2012**

—Charles E. Yoe, PhD; David A. Moser, PhD (USACE Institute for Water Resources)

Source file: Risk for Planning Associates 2012\_Moser\_Yoe.pdf ([Series](#))

Keywords: assessment, management

**Risk Workshop: Event and Fault Trees (July 2010 Workshop)**

— U.S. Army Corps of Engineers (2010)

This presentation is on how to use event and fault trees with probabilities.

Source file: Session 15a Event and Fault Trees for ERR.pdf ([Series](#))

Keywords: assessment, management

**Risk Workshop: Monte Carlo Simulation (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Source file: Session 14a Monte Carlo Simulation.pdf ([Series](#))

Keywords: assessment

**Risk Workshop: Scenario Planning (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Source file: Session 13b Scenario Planning.pdf ([Series](#))

Keywords: assessment, management

**Risk Workshop: Sensitivity and Importance (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

This presentation was part of a risk workshop that was held at the Pacific Ocean Division in 2010.

Source file: Session 11 Importance and sensitivity 2010.pdf ([Series](#))

Keywords: assessment

**Risk Workshop: Uncertainty, Probability and Statistics (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Source file: Session 12c - Concepts of probability and statistics.pdf ([Series](#))

Keywords: assessment

## Communication

**02 Risk Technology Workshop: Why Risk Analysis? (July 2010 Workshop)**

—David A. Moser, PhD (U.S. Army Corps of Engineers) (2010)

Discusses the contemporary language of risk. This presentation was part of a series of risk workshops that were held in each division in 2009 or 2010.

Source file: Session 2 The Contemporary Language of Risk.pdf ([Series](#))

Keywords: communication

**04 Risk Technology Workshop: Risk Communication (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Source file: Session 4 Risk communication 2010.pdf ([Series](#))

Keywords: communication

**17 Risk Technology Workshop: Expert Opinion Elicitation (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Source file: Session 9e - Expert Opinion Elicitation.pdf ([Series](#))

Keywords: assessment, communication, management

**20 Risk Technology Workshop: ALL SLIDES (July 2010 Workshop)**

—David Moser, Charlie Yoe, and Robert Patev (2010)

All slides used in the July 2010 Risk Technology Workshop.

Source file: Risk Tech Workshop\_ALL.pdf ([Series](#))

Keywords: assessment, communication, management, risk analysis

**Resource list: Advanced Risk Communication Training**

—Stacy M. Langsdale, PE, PhD (Silver Jackets) (2012)

This document provides a list of resources related to the Silver Jackets' course "Advanced Risk Communication Training: Skills and Techniques for Flood Risk Managers to Work with Communities".

Source file: Risk Comm for Silver Jackets Course Resources Handout.pdf ([Series](#))

Keywords: communication

## Management

**17 Risk Technology Workshop: Expert Opinion Elicitation (July 2010 Workshop)**

—Robert C. Patev (U.S. Army Corps of Engineers) (2010)

Source file: Session 9e - Expert Opinion Elicitation.pdf ([Series](#))

Keywords: assessment, communication, management

**19 Risk Technology Workshop: Risk-Informed Decision Making (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Source file: Session 11 Practical Aspects of RMDM 2010.pdf ([Series](#))

Keywords: management

**20 Risk Technology Workshop: ALL SLIDES (July 2010 Workshop)**

—David Moser, Charlie Yoe, and Robert Patev (2010)

All slides used in the July 2010 Risk Technology Workshop.

Source file: Risk Tech Workshop\_ALL.pdf ([Series](#))

Keywords: assessment, communication, management, risk analysis

**Life-Cycle Risk Management: Presentation Sep. 2010**

—David A. Moser, PhD (USACE Institute for Water Resources) (2010)

This presentation was given at IWR on September 3, 2010 on life-cycle risk management.

Source file: Risk Management IWR 09032010.pdf ([Series](#))

Keywords: management

**Presentation on Integrated Risk Management**

—David A. Moser, PhD (USACE Institute for Water Resources) (2010)

A Presentation to the Institute for Water Resources in 2010.

Source file: Risk Management IWR 090320101.pdf ([Series](#))

Keywords: management

**Risk for Planning Associates 2012**

—Charles E. Yoe, PhD; David A. Moser, PhD (USACE Institute for Water Resources)

Source file: Risk for Planning Associates 2012\_Moser\_Yoe.pdf ([Series](#))

Keywords: assessment, management

**Risk Workshop: Event and Fault Trees (July 2010 Workshop)**

— U.S. Army Corps of Engineers (2010)

This presentation is on how to use event and fault trees with probabilities.

Source file: Session 15a Event and Fault Trees for ERR.pdf ([Series](#))

Keywords: assessment, management

**Risk Workshop: Risk-Informed Planning (July 2010 Workshop)**

—Charles E. Yoe, PhD (USACE Institute for Water Resources) (2010)

Source file: Session 15b Risk Informed Planning 2010.pdf ([Series](#))

Keywords: management

**Risk Workshop: Scenario Planning (July 2010 Workshop)**

—Charles E. Yoe, PhD (U.S. Army Corps of Engineers) (2010)

Source file: Session 13b Scenario Planning.pdf ([Series](#))

Keywords: assessment, management

**Risk Analysis**

**01 Risk Technology Workshop: Executive Overview (July 2010 Workshop)**

—Charles E. Yoe, PhD; David A. Moser, PhD (U.S. Army Corps of Engineers) (2010)

This is the Executive Overview of the Risk Technology Workshop that was presented to each division in 2009 and 2010.

Source file: Session 1 Executive overview 2010.pdf ([Series](#))

Keywords: risk analysis

**20 Risk Technology Workshop: ALL SLIDES (July 2010 Workshop)**

—David Moser, Charlie Yoe, and Robert Patev (2010)

All slides used in the July 2010 Risk Technology Workshop.

Source file: Risk Tech Workshop\_ALL.pdf ([Series](#))

Keywords: assessment, communication, management, risk analysis

**Risk Analysis: Presentation for Planning Associates**

—Charles E. Yoe, PhD; David A. Moser, PhD (USACE Institute for Water Resources) (2011)

General presentation of risk analysis including risk assessment, communication, and management.

Source file: PA 2011.pdf ([Series](#))

Keywords: risk analysis