

MORS U.S. National Security Risk Analysis Certificate Course

Required: Computer with Excel and administrative privileges to download SIPMath (a simulation tool) and Netica (Bayesian network / Influence diagram)

Day 1

Theme:	Definitions, Pillars of Modern Risk
Morning	Developing your risk intelligence
Midday	Introduction to quantitative risk concepts
Afternoon	Calibration of probabilities

Day 2

Theme:	Using Monte Carlo Simulation for Risk Analysis
Morning	Model building
Midday	Probability distributions
Afternoon	Monte Carlo simulation

Day 3

Theme:	Making Decisions with Risk and Uncertainty
Morning	Verifying and validating your model
Midday	Decision making with uncertainty
Afternoon	Intelligent adversary

Day 4

Theme:	Risk Management and Risk Communication
Morning	Value of information
Midday	Examples of risk models
Afternoon	Risk communication

Day 5

Theme:	Risk Applications and Bayesian Models
Morning	Computational creativity
Midday	Bayesian updating
Afternoon	Bayesian networks / influence diagrams / Netica