



**Objectives Sheet**  
**BCF 206 - Cost Risk Analysis**

*Course Learning/Performance Objectives followed by enabling learning objectives*

<b>BCF 206.U01.01</b>	<b>Explain the differences between cost risk analysis and uncertainty analysis as applied to major weapon systems.</b>
BCF 206.U01.01.01	Categorize the various methods used to perform cost risk analyses
BCF 206.U01.01.02	Classify the types of risk faced by defense acquisition programs.
BCF 206.U01.01.03	Illustrate the difference between risk and uncertainty
BCF 206.U01.01.04	Explain the Monte Carlo Simulation process used in cost risk analyses
<b>BCF 206.U02.01</b>	<b>Explain the principles for developing and assessing subjective probabilities</b>
BCF 206.U02.01.01	Demonstrate the imprecision associated with using words to communicate about uncertain quantities
BCF 206.U02.01.02	Assess subjective probabilities using the fixed probability, fixed value and fractile specification techniques.
BCF 206.U02.01.03	Compare the various heuristics used to assess subjective probabilities and the biases that may result.
<b>BCF 206.U03.01</b>	<b>Explain the need to perform goodness-of-fit testing in a cost risk analysis.</b>
BCF 206.U03.01.01	Explain a chi-square goodness-of-fit test. .
BCF 206.U03.01.02	Explain Kolmogorov-Smirnov goodness-of-fit tests.
BCF 206.U03.01.03	Explain Anderson-Darling goodness-of-fit tests.
BCF 206.U03.01.04	Apply the distribution fitting capabilities of a software package.
<b>BCF 206.U04.01</b>	<b>Construct a spreadsheet-based simulation model.</b>
BCF 206.U04.01.01	Describe the steps involved in a simulation study.
BCF 206.U04.01.02	Model the inputs to a spreadsheet-based simulation model with probability distributions.
BCF 206.U04.01.03	Discuss techniques for generating random variates with a specified probability distribution
BCF 206.U04.01.04	Interpret the output from a spreadsheet-based simulation.
BCF 206.U04.01.05	Discuss techniques for generating random numbers.
<b>BCF 206.U05.01</b>	<b>Analyze the cost risk associated with a major defense acquisition program.</b>
BCF 206.U05.01.01	Construct a simulation model to analyze the cost risk for a defense acquisition program.
BCF 206.U05.01.02	Interpret simulation output to describe the variability in expected project cost.
BCF 206.U05.01.03	Prepare a briefing and present the results of the cost risk analysis.