BCF 101

Fundamentals of Cost Analysis

Policies and techniques are introduced for preparing weapons systems life cycle cost estimates, including DoD estimating requirements and guidance, estimate use and structure, analogy estimates, parametric estimating, improvement curves, inflation, risk, economic analysis, and software cost estimating. Practical exercises and a case study give the student the opportunity to apply these skills.

Objectives: Students who successfully complete this course will be able to:

- define cost data and apply appropriate quantitative techniques to estimate costs for major defense acquisition programs;
- explain cost estimating policies; and
- perform a life cycle cost analysis.

Who Should Attend: BCF 101 is required for DoD employees responsible for the preparation of materiel system life cycle cost estimates. It is also beneficial for individuals who use information from life cycle cost estimates, supervise cost estimators, prepare budgets based on life cycle cost estimates, manage acquisition programs, evaluate and negotiate contract proposals, or want to learn cost estimating basics.

Prerequisite: ACQ 101. Students need competence in algebra equal to a second-year high school algebra course. If needed, an algebra tutorial is available at http://www.dau.mil/registrar/_pre-courses.asp. Students with questions about their math skills should contact the course manager. Students will also need a calculator and familiarity with a Windows-based computer platform and spreadsheet software.

Recommended: Introductory course in statistics

Length: 10 class days

Method of Delivery: Resident/Local

PDS Code: Q1A

BCF 102

Fundamentals of Earned Value Management

This course builds on the Earned Value Management (EVM) concepts introduced in ACQ 101. Students learn in a virtual classroom environment. The course summarizes the language, data reports, metrics, graphs, and management processes associated with EVM as they apply to DoD acquisition management. The course emphasizes the processes related to the Performance Measurement Baseline (PMB), the Integrated Baseline Review (IBR), and the American National Standards Institute (ANSI) for EVM Systems. Finally students evaluate and compute basic EVM metrics and EVM metric-based Estimates at Completion (EACs).

Objectives: Students who successfully complete this course will be able to:

- describe, in plain language, the acronyms and meaning of EVM-associated vocabulary;
- identify the program management data elements and processes associated with PMB development;
- understand how the ANSI EVM Industry Standard is used to certify EVM-integrated management systems;
- explain the IBR process and purpose;
- compute and comprehend the meaning of selected EVM metrics and EVM EACs; and
- identify acquisition organizations, stakeholders, and formal agreements associated with EVM.

Who Should Attend: This course is for military officers, O-1 and above; civilians, GS-9 and above; and equivalent industry personnel working in, or selected for, positions requiring knowledge and use of EVM.

Prerequisite: ACQ 101

Length: This is a nonresident, self-paced course available through the Internet. Students must pass the final examination within 20 work days of the start date.

Method of Delivery: Distance Learning—
See "Online Courses" on page 12

PDS Code: Q1B