

SOFTWARE ESTIMATION SERVICES

Software Estimation Services are part of our Information Technology vertical. Our interactions with various clients over the years shows that software estimation poses a challenge at all levels in the IT function – right from CIOs who need to estimate departmental budgets to Project Managers who need to estimate individual project costs. Our software estimation service helps clients to build the ecosystem necessary to adopt high maturity estimation practices.

These services include:

- Estimation Ecosystem Definition
- New Model Development
- Estimation Reviews and Audits
- Estimation Training

Additional details about the software estimation related training courses are given below.

ESTIMATION TRAINING

To achieve significant estimation accuracy, it is essential for PMs and Team Leaders to have knowledge of various estimation models, their applicability and other pros and cons. This knowledge will help them decide the most appropriate model to be used in a given situation. Our consultants have so far trained 1000+ PMs and Team Leaders on various estimation related topics. Our training offerings include:

1. Software Estimation Basics

The course provides elementary knowledge of the standard estimation process, industry standard models, the role of metrics in estimation and some best practices related to software estimation.

Duration: 4 hours

Intended Audience:

Project Managers, Team Leaders, Business Analysts, Software Engineers and anybody else interested in the subject.

Topics Covered:

- Software Estimation Overview
- Reasons for Incorrect Estimates
- Importance and Role of Estimation
- Standard Estimation Process
- Standard Approaches to Estimation
- Introduction to Commonly used Estimation Techniques
 - Function Points
 - Use Case Points
 - Complexity Based Estimation
 - Estimation by Analogy
 - Delphi Method
- Role of Metrics in Estimation
- Due Diligence on Estimates at Proposal Stage
- Presenting Estimates to Clients
- Estimation Ecosystem at Organization/Unit Level

2. Overview of IFPUG's SNAP Model

The Software Non-Functional Assessment Process (SNAP) is a new model from IFPUG for sizing non-functional requirements of a software development or enhancement project. This course introduces the participants to SNAP sizing, effort estimation using SNAP, pros and cons of using SNAP with real project requirements.

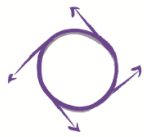
Duration: 2 hours

Intended Audience:

All roles involved in estimation. Familiarity with Function Points model desirable

Topics Covered:

- Types of User Requirements
- Why SNAP?
- SNAP Sizing Process Overview
- SNAP Model Introduction
 - Boundaries and Partitions of an application
 - SNAP Categories
 - SNAP Sub-Categories
 - Calculating SNAP Size
- SNAP in action (examples)



- Estimating Effort from Size
- SNAP Limitations and Challenges

3. Software Non-Functional Assessment Process (SNAP)

The Software Non-Functional Assessment Process (SNAP) is a new model from IFPUG for sizing non-functional requirements of a software development or enhancement project. This course covers details of the SNAP Model such as Categories, Sub-Categories, counting rules and metrics. These topics are covered using examples from real projects.

Duration: 8 hours

Intended Audience:

Project Managers, Team Leaders, Business Analysts.
Familiarity with Function Points model desirable

Topics Covered:

- Software Estimation Overview
- Types of User Requirements
- Overview of Function Points (FP) model
- Limitations of FP
- SNAP Sizing Process
- SNAP Model Details
 - The Four SNAP Categories
 - The Fourteen SNAP Sub-Categories
 - Counting Rules
 - Complexity Levels
 - SNAP Sizing
- SNAP Counting Tool
- Converting Size to Effort
- Hands-on cases / examples
- SNAP Challenges and Limitations

4. Software Estimation using Function Points

The Function Points model is by far the most popular sizing model for application development and maintenance services and is also an ISO standard. This course covers details of the FP model including Types of Functions, counting rules, General System Characteristics, using FP at proposal stage, applicability of FP etc. A hands-on case study is also

included to enable the participants to get a feel of the actual FP counting process.

Duration: 8 hours

Intended Audience:

Project Managers, Team Leaders, Business Analysts

Topics Covered:

- Software Estimation Overview
- Function Point Analysis
 - Introduction and Objectives
 - User View
 - Boundaries
 - Data Functions
 - Transaction Functions
 - Counting Rules
 - Code Data
 - General System Characteristics
 - Conversion FP
- FP for Software Maintenance Projects
- FP at Proposal Stage
- Hands-on Case Study
- Limitations and Applicability of FP