



Workshop on Software Estimation – Function Point Analysis (IFPUG)

1. Program Overview

Raj InfotechBiz Solutions Pvt. Ltd. (RISPL) ensures more tips and techniques with real time business scenarios as part of the learning of Software Estimation. More than 50 to 80% of software projects fail because of time and cost overrun. Many such failures are traced back to poor estimation. Ad-hoc estimation not only can ruin the project success but also your career as a Programmer or a Project manager.

Software project estimation is a process of expectation setting which forms the basis of quantifying the resources required to accomplish certain goals based on certain cleared stated assumptions. It comprises of Size, Effort and Schedule estimations.

Functional Point Estimation (FPA) proposed by IFPUG (International Function Point User Group) is industry leading software estimation technique. Learning and following FPA by IFPUG could save you countless late night stays at office, and also could put you on fast-track to promotion.

These three sessions with more hands-on workshop on FPA would demystify the notions about estimation and equip the software professional to handle the subject of estimation with improved accuracy and ease to tide over the above said negative points.

2. Why this workshop is Important?

Business related:

- ❖ To make an effective project proposal document
- ❖ Basic step towards size, effort and schedule estimates of project management
- ❖ Helps to ensure a right delivery date to the customer
- ❖ Ensures right costing for management for a good profit margin
- ❖ Reduce the project failure rate, thus improving customer satisfaction

Career related:

- ❖ To have expertise in estimation
- ❖ To play pre-sale role effectively
- ❖ This skill would help to move to next senior level as early as possible
- ❖ To have job satisfaction
- ❖ To guide and monitor their subordinates for a better output



- ❖ To complete the project on time with quality
- ❖ To have better understanding about software project management

3. Course content for Functional Point Analysis Workshop

Session 1:

- Introduction to Software Estimation
- Importance of domain or functional knowledge for right estimation
- Types of Estimation
 - Size Estimation
 - Effort Estimation
 - Schedule Estimation
- Function Point Analysis
 - History, Background
 - Benefits of FPA
 - Types of function point count
- Identifying application boundaries
- Elementary processes with Examples
- Data, Records and Files
- Transactional function Type
 - External Inputs (EI)
 - External Outputs (EO)
 - External Inquiry (EQ)
- Case Study

Session 2:

- Identifying Data Element Type (DET))
- Identifying Record Elementary Type (RET)
- Data Function Type
 - Internal Logical File (ILF)
 - External Interface File (EIF)
- Identifying File Type Referenced (FTR)
- How to count unadjusted function point?
- Rating of components
- General System Characteristics(GSC) descriptions
- Calculation of Value Adjustment Factor(VAF)



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- Calculation of Function Point
- Case Study

Session 3:

- Software productivity
 - Productivity Measurement
 - Function Point to Person Months conversion
- Cost calculation for software development
- Major case study
 - Identification of Elementary processes
 - Identification of Data elements and Record elements
 - Counting and rating of EI, EO, EQ, ILF and EIF
 - Calculation of VAF for identified GSCs
 - Calculation of Function point
 - Conversion to Person Months

4. Eligibility Requirement/ Pre-requisites for the training

Any participant with degree/diploma having minimum of 1 year experience in Software development.

Each participant should have a Computer with Broadband internet connection and High quality head set

5. Target Audience

IT Professional, Software Engineer, Team Lead, Project Lead, Tech. lead, Architect, Business Analyst, IT Managers, Quality Analyst, Project Managers, EDP/MIS Managers, etc.

6. Date and Time

On demand for 3 sessions, each session with 4 Hrs duration (Total 12 Hrs)

7. Venue/Mode of Delivery

Live virtual/online Class Room

8. Programme Takeaways

1. Hand out of course content
2. Certificate



9. Procedure for Certificate

1. Each participant needs to attend 3 sessions of training through virtual/on line classes

10. Faculty Profile

R.Wilfred Raju

MCA, M.Sc, PGDCA, Six Sigma Black Belt, ITILV3 (Foundation), Global Business Leadership certification from U21 GU, Singapore.

Wilfred Raju is the founder and Managing Director of Raj InfotechBiz Solutions Pvt. Ltd., a Six sigma practicing company, who aims to help the organization to achieve improvement in the performance of the business processes. Improvement comes though by identifying business problems/pains, reduce the cycle time of a process/service/product and align the IT investments with Business objectives to maximize the ROI, reduce the TCO, delight the customers and increase the net profit of the business.

Wilfred has overall 26 years+(>15 yrs in IT) experience in IT Project/Program delivery management, Product development and Consulting- Business Process Re-engineering, IT Portfolio Rationalization, Process & Productivity Improvement, Resource Identification, Resource Placement and Six sigma consulting with a *capability to start new Business units/Practices*, manage and operate as profitable practices.

As he has played roles like Delivery Head, Principal Consultant, Program Manager, Project Manager and EDP/MIS Manager in IT companies like Satyam Computer Services Ltd.(Mahindra Satyam), NatureSoft and Geosoft and non IT Company like Central Warehousing Corporation, he is having expertise in multiple technologies- Microsoft, JAVA, Open source, Embedded and ERP and hands-on exposure to operations Management with the knowledge of business processes of Human Resource Management, Banking, Insurance, Finance, Warehouse & Transport (Logistics) Management; Import & Export Operation; Container Freight Station Management, Auto manufacturing & Port operational processes; Trading, Retail, Shipping Management and Supply Chain Management.

Wilfred was playing key role as part of recruitment team of Satyam Computer Services Ltd wherein he was involved in activities like Identification and selection of right resources and Competency development.

Wilfred has also given business solutions through consulting to many fortune 500 companies, mid and small size enterprises (MSE) like Honda Japan, World Bank, Satyam Computer Services Ltd, Kings Industries etc, As he is more strategic in his thoughts, he has developed, groomed and mentored many next generation leaders and they are part of leading multinational business organizations. He has ***conducted many Six sigma, Quality process, 5S, BPR, IT Portfolio Rationalization, Process & Productivity Improvement, Software Estimation and Project Management workshops*** for IT as well as non-IT employees



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While Wilfred has authored books on Linux and **Software Project Management**, *he is currently writing a book on business solution techniques and tools for all business problems*. He has given series of talks, conducted workshops and seminar on topics like Effective business solutions, How to recover sick industries, Marketing Strategies, PEST & SWOT Analysis, Different roles in IT industry and emerging technologies. He has written motivation articles in leading news papers, magazines, etc. He has also given TV talks on Software Project Management, Linux, future of IT field etc.

Wilfred is a member of Board of Studies, Adhiparasakthi College of Arts & Science, Kalavai, Vellore Dist.
