



Requirements Engineering

4 Days

COURSE CONTENT

Introduction

The course opens with a discussion on what we are trying to achieve when we are in requirements engineering mode. The development template is introduced and the areas relevant to the course are covered. Then we demonstrate where the course topics fit into the development process.

The Requirements Engineering Process

This is an introductory session that breaks down the whole process into its key activities, elicitation of requirements, analysis of the results and documenting the requirements.

Elicitation

Having covered the main aims of this activity, we then cover the various techniques that can be used to elicit business requirements.

-Observation

The advantages and drawbacks of observation are discussed, along with the preparation required to undertake a successful observation exercise.

-Questionnaires

When to use questionnaires, the advantages and disadvantages of using them and points to note when designing a questionnaire.

-Interviewing

This topic is broken down into three main sections; Planning, Undertaking and Follow up.

•Planning

Preparation

Who to speak to

When to see them

What to cover

How to structure the interview

•Undertaking

Dos and Don'ts when undertaking an interview

Asking the right questions

Controlling the interview

Making notes

•Follow up

Appraising your performance

What to do next

Analysis

Having captured the requirements from the business we need to analyse the results in order to be able to specify what needs to be done. This section discusses the prioritisation of the requirements, how to use a checklist to ensure that we have focused requirements and diagramming techniques that can be used to represent the overall need.

Workshops

This section covers the key elements that must be considered when deciding to undertake a workshop. Preparation, Roles & Responsibilities, Building Agendas, Facilitation Skills, Facilitation Rules, Workshop Documentation.

Documentation

Having established what needs to be done, the report needs to be produced. This section covers the main considerations in writing and presenting a technical report:

- Preparing the Draft Report (Collection of material, Selection, Logical ordering).
- The Presentation and Structure of Reports (Layout, Headings, Language, Style, Presentation).
- Illustrating Technical Writing (The value of illustrations, Using tables and graphs, Using Colour).
- Revision (Does it meet it's objectives, Check for the 4 C's)