CERTIFIED PROFESSIONAL FOR REQUIREMENTS ENGINEERING (CPRE-FL) FOUNDATION LEVEL

Duration: 3 Days; Instructor-led

WHAT YOU WILL LEARN

Do you develop systems using modern technology? How can you be sure that you are developing the right system, the system your customer wants? Certified Professional for Requirement Engineering (IREB) is the answers! In this course learn how to perform a successful project by handling your requirements in a systematic way. After you have visited this course you will be able to establish and perform requirements engineering successfully in your own projects. This course is designed for anyone who would like to gain an international recognized professional qualification in Requirements Engineering. The IREB was officially founded as the International Requirements Engineering Board in Fürth (Germany) in October 2006.Currently, there are over 2,000 IREB Certified Professionals for Requirements engineering worldwide.

AUDIENCE

This course is specially design for Systems Engineers, Requirements Engineers, Software Architects, Project Managers

PREREQUISITES

No IT degree is required, but the understanding of the basic capabilities of software is a prerequisite.

METHODOLOGY

This program will be conducted with interactive lectures, PowerPoint presentations, discussions and practical exercises

COURSE OBJECTIVES

Upon completion of this program, participants should be able to :
- Learn the necessary knowledge of a requirements engineer.
- Learn a common understanding for Requirements Engineering independent of an industrial domain or development process.
- Understand the four core disciplines of requirements engineering which can add significant value in system development.
- Focus on acquiring the necessary practical knowledge and learning the basic concepts in requirements engineering, with reinforcement through practical exercises.

COURSE OUTLINE

Module 1 - System And System Context

- System , System Context , and Boundaries
- Determining System and Context Boundaries

Module 2 - Requirements Elication
- Sources of Requirements
- Categorization of Requirements according to the Kano Model
- Elicitation Techniques

Module 3 - Requirements Documentation
- Structuring Documents
- Documentation Style Alternatives
- Document Structure
- Using Requirements Documents
- Quality Criteria for Requirements Documents
- Quality Criteria for Requirements
- Glossary

Module 4 - Documentation Of Requirements Using Natural Language
- Language Effects
- Constructing Requirements
- using a Template

Module 5 - Model-Based Documentation Of Requirements
- Models
- Goal Models
- Use Case Models
- Three Modeling Views
- Structural Requirements Models
- Functional Requirements Models
- Behavioral Requirements Models

Module 6 - Checking And Reconciling Requirements
- Basics for Checking Requirements
- Basics for Reconciling Requirements
- Checking Requirements Quality
- Principles for Checking Requirements
- Techniques for Checking Requirements
- Technique for Reconciling Conflicting Requirements

Module 7 - Requirements Managements
- Adding Attributes to Requirements
- Creating Views of Requirements
- Prioritizing Requirements
- Tracing Requirements
- Requirements Versioning

Module 8 - Tool Support
- Types of Tools
- Tool Introduction
- Tool Evaluation