

Requirements Engineering – Four-day Virtual Course

Exam Preparation Course for the IREB® Certified Professional for Requirements Engineering (CPRE)

ABOUT THE COURSE

In this **four-day virtual course**, you will learn state-of-the-art methods and techniques for **Requirements Engineering** including the **elicitation, documentation, analysis, negotiation and management of system requirements**. The course includes writing **clear, unambiguous requirements specification** for both **business and cyber-physical systems**.

The course will ensure that your work in **Requirements Engineering** is performed in a professional and efficient manner, whether your team uses **agile development** or **traditional system development approaches**.

The practical work covers **natural language business systems requirements writing and system specification using requirements models** including Class Diagrams, Activity Diagrams, Use Case Diagrams, Sequence Diagrams and State Diagrams.

COURSE ACCREDITATION

This course is aligned with the **International Requirements Engineering Board (IREB®) syllabus for Certified Professional for Requirements Engineering (CPRE) Foundation Level**. Viewpoint Training is an **IREB® Recognized Training Provider**.

VIRTUAL COURSE PRESENTATION

- Presented live from our virtual studio using Zoom video conferencing.
- You will see, hear and talk to our certified instructors as well as ask questions and participate in discussions.
- Attend the course at your office or home – all you need is a computer and internet connection.

WHO SHOULD ATTEND?

Requirements Engineers, Systems Analysts, Business Analysts, Testers, Software Engineers, System Engineers, Product Owners, System Developers, Software Development Project Managers and Information Technology Professionals.

25-28 March 2025

VENUE: Viewpoint Virtual Studio

TIMES: 9:00-15:00 SAST

**FEE: ZAR 18,860.00 per delegate including VAT
USD 1,050.00 per delegate**

REGISTRATION: Return registration form to Cathy at cathym@viewpoint.co.za or register online at www.viewpoint.co.za

ENQUIRIES: Phone: 087 135 2507 Cell: 083 226 1588

COURSE CONTENT

Introduction and Overview

- Introduction to Requirements Engineering (RE)
- What, why, where and how of Requirements Engineering
- The role and tasks of a Requirements Engineer
- What to learn about Requirements Engineering

Principles of Requirements Engineering

- The overview of principles
- The principles explained

Work Products and Documentation Practices

- Work products in Requirements Engineering
- Natural-language-based work products
- Writing agile requirements
- Template-based work products
- Model-based work products
- Requirements document structures
- Prototyping in Requirements Engineering
- Quality criteria for specified requirements

Practices for Requirements Elaboration

- Sources of requirements
- Elicitation of requirements
- Negotiation and conflict resolution
- Validation of requirements

Process and Working Structure

- Influencing factors
- System Requirements process facets
- Configuring a requirements process

Requirements Management

- What is requirements management?
- Life cycle management
- Version control
- Configuration and baselines
- Attributes and views
- Requirements traceability
- Prioritizing requirements

Tool Support

- Types of system development tools
- Evaluating tools

Practical work is done throughout the course.

The course includes a trial exam to achieve the Viewpoint Certificate in Requirements Engineering.

REGISTRATION FORM

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To register please complete this form and return to cathym@viewpoint.co.za

We would like to register the following delegates:

DELEGATE 1:

Course date: _____

First Names: _____ Preferred Name: _____

Last Name: _____

Cell: _____ Email: _____

Position in Company: _____

DELEGATE 2:

Course date: _____

First Names: _____ Preferred Name: _____

Last Name: _____

Cell: _____ Email: _____

Position in Company: _____

COMPANY

Company Name: _____

Company VAT Number: _____

Invoicing Address: _____

Contact Person: _____ Tel: _____

Email: _____ Cell: _____