

KCS EDUCATION **INCOSE SEP**  
**2021** SYSTEMS ENGINEERING  
 PROFESSIONAL CERTIFICATION  
 EXAM PREPARATION



A 40 hours remote preparatory training course for the INCOSE SEP exam

The main objective of this training session is to introduce the basic concepts, life cycle stages and processes of the Systems Engineering discipline based on the INCOSE Systems Engineering Handbook.

With this, it is intended that course attendees are trained and prepared to take the official INCOSE Systems Engineering Professional (SEP) certification exam.

The course alternates theoretical contents with practical aspects in order for students to master the key concepts of the discipline. Student interaction is encouraged and various exam simulations are carried out on an online platform.

The course is presented online via WebEx, in the English language. Therefore, proficiency in English is required.

# THE TRAINER

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## RENÉ OOSTHUIZEN

OWNER OF MONZÉ CONSULTANTS & INCOSE FOUNDER

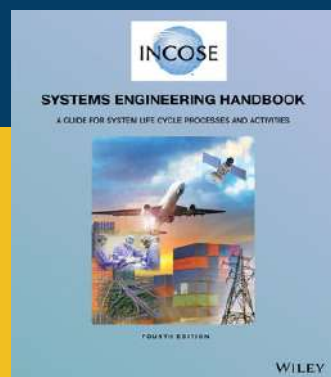
Holds a BSc degree in Electronic Engineering (University of Stellenbosch, 1976), a Masters in Business Leadership (MBL) degree (UNISA, 1987) and an Export Management Diploma (Dip. Ex. P. (SA)) from the South African Foreign Trade Organisation (SAFTO, 1996).

René has 20 years (1999-2019) experience as practicing lead systems engineer on several projects, spanning concept, development, production and utilisation/support and retirement stages of the systems life cycle from a customer (buyer) perspective. He was responsible for physically executing the required systems engineering activities, as well as mentoring young engineers and project managers

- Past Treasurer of INCOSE (2018-2019)
- Past Assistant Director of EMEA Sector (2014-2018)
- Past President of INCOSE South Africa Chapter
- Assistant Director INCOSE EMEA Events Coordination
- Member of INCOSE Natural Systems Working Group
- Member of INCOSE Social Systems WG

## COURSE OBJECTIVE

Prepare students for the INCOSE Systems Engineering Professional (SEP) certification exam, based on:



The INCOSE Systems Engineering Handbook content



Various cheat sheets



Simulated exam questions



Student Interaction

## COURSE MATERIALS

### HAND COPIES

INCOSE Systems Engineering Handbook (SEHBv4)

Presentation Slides  
 Workbook (Red Book)

### PDF COPIES

Various Cheat Sheets

### ONLINE RESOURCES

Practice Exam Questions (Quizard)

\*\*Link and Credentials are provided during the course

## COURSE SCHEDULE

SCHEDULE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
<b>8:00 AM - 10:00 AM</b>	SEP Introduction & SE Handbook Scope (Chapter 1)	Technical Processes (Chapter 4)	Technical Management Processes (Chapter 5)	Organizational Project-Enabling Processes (Chapter 7)	<b>Exam Simulation (120 Questions)</b>
<b>10:00 AM - 10:30 AM</b>	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
<b>10:30 AM - 12:00 PM</b>	Systems Engineering Overview (Chapter 2) <i>Test</i>	Technical Processes (Chapter 4) <i>Test</i>	Technical Management Processes (Chapter 5) <i>Test</i>	Tailoring process and Application of SE (Chapter 8) <i>Test</i>	Review Exam Answers
<b>12:00 PM - 13:30 PM</b>	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
<b>13:30 PM - 15:00 PM</b>	Generic Life-Cycle Stages (Chapter 3)	Technical Processes (Chapter 4)	Technical Management Processes (Chapter 5)	Cross Cutting Systems Engineering Methods (Chapter 9)	Review Exam Answers
<b>15:00 PM - 15:30 PM</b>	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
<b>15:30 PM - 17:00 PM</b>	Generic Life-Cycle Stages (Chapter 3) <i>Test</i>	Technical Processes (Chapter 4) <i>Test</i>	Agreement Processes (Chapter 6) <i>Test</i>	Specialty Engineering Activities (Chapter 10) <i>Test</i>	General Q&A Review & Closure

## PRICE

BY  
 QUOTATION

## CONTACT



## COURSE CONTENT

- 01 Introduction & Scope
- 02 Systems engineering Overview
- 03 Generic Life Cycles
- 04 Technical Processes
- 05 Technical Management Processes
- 06 Agreement Processes
- 07 Organizational Project-Enabling Processes
- 08 Tailoring Process
- 09 Cross-Cutting Engineering Methods
- 10 Specialty Engineering Activities