

# Getting Acquainted with being a Resident Engineer: Roads

A two-day course to guide Resident Engineers on roads projects in their specific functions, roles and responsibilities on site



## Attend this course and learn about:

- Duties of the Resident Engineer
- Dealing with the client, engineer, contractor, community and other role players
- Relationships, ethics and responsibilities
- Good record keeping and contract management
- Inspections, tests and approval of construction activities
- Quality control and evaluations
- Measurement and payment certificates
- Supervision and site management

## Benefits include:

- Comprehensive manual for road supervision
- Worksheets and checklists for construction activities
- Supervision advice, tips and dangers
- List of key success factors
- Excel program for measurement backup, quality control and statistical analysis
- CPD credits (ECSA)

## Presenter:

Jan Bierman Pr Eng, BEng(Civil)

## COURSE DATES & VENUES

Scheduled courses are offered online and face-to-face around the country based on demand.

Please contact Lizéle du Preez for more information on upcoming courses: [Lizelle@saicepdp.org](mailto:Lizelle@saicepdp.org) / 011 476 4100

TIMES: 08:00 for 08:30 to 16:30

## REGISTRATION

To register, visit [www.candidateacademy.co.za](http://www.candidateacademy.co.za)  
OR email [Academy@saicepdp.org](mailto:Academy@saicepdp.org)

## WHO SHOULD ATTEND

The course helps graduates apply their theoretical training in practice.

It is therefore recommended for:

- Candidate engineers, technologists and technicians whose aim it is to master the necessary skills towards becoming a respected Senior Resident Engineer of excellence on road construction projects
- Assistant Resident Engineers working on road construction and other construction projects
- Resident Engineers with limited experience
- Project Engineers from Government bodies working on construction projects



**SCE**

School of Consulting Engineering



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## COURSE CONTENT

### CONSTRUCTION PROJECTS

- Functions and focus of role players
- Contractual matters and documents
- Effective engagement with the community
- Resident Engineer's duties and responsibilities
- Supervision of construction activities
- As built and reports
- Traffic accommodation

### QUALITY CONTROL SYSTEM

- Quality control plan
- Registers and inspection requests
- Method statements and trial sections
- Visual inspections
- Checklists and level control
- Laboratory tests and statistical evaluation of test results

### SITE SUPERVISION DRAINAGE

- Services
- Drains and culverts
- Reinforced concrete

### SITE SUPERVISION EARTHWORKS

- Mass earthworks, layer works and stabilisation
- Crushed stone base
- Gravel wearing course

### SITE SUPERVISION SURFACING

- Prime, seals, slurry, asphalt

### FINANCE

- Measurement and payment backup records
- Contract price adjustments
- Variations, rise and fall of special materials
- Variation orders

### PROJECT MANAGEMENT

- Timeous decisions
- Problem solving techniques
- Balance between being too strict or too lenient
- The give and take principal
- Tips on managing conflict
- Key success factors
- Traits of a good Resident Engineer

## ABOUT YOUR FACILITATOR

**Jan Bierman** completed his B Eng (Civil) degree at the University of Pretoria. He started his career in design and road supervision at MBS, then freelanced for consulting engineers on road construction projects as ARE and RE. He has developed a proven quality system and supervision management style after working for many Consulting Engineers over the last 25 years. He has taken many students under his wing and developed a manual for supervision staff on road projects.

Jan has broad supervision experience working with a wide variety of Clients, Consultants and Contractors both big and small in urban and remote regions. He has supervised many roads and bridges all over South Africa and in Mozambique. He understands the dynamics of each type of project, supervising small to large projects and being a part of the supervision and planning team.

Jan has supervised over 800km of road construction and 12 new bridges and has worked for more than 15 consulting engineers.

In-house courses can be arranged.

Contact Lizéle at [lizelle@saicepdp.org](mailto:lizelle@saicepdp.org) for more information.

### WHAT TO BRING TO THE COURSE

Laptop with Excel



The Candidate Academy's philosophy is to support candidates on their road to registration with ECSA, by helping them through the transition from theoretical training to the 'how' of engineering projects and processes. The Academy offers practical, hands-on training relevant to experiences in the workplace.

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