

Getting Acquainted with being a Resident Engineer on Pipeline Projects

A two-day course to guide Resident Engineers on pipeline & reticulation projects on their **specific functions, roles and responsibilities on site.**



Attend this course and learn about:

- The duties of the Resident Engineer
- Dealing with the Client, Engineer, Contractor, Community, and other role players
- Relationships, ethics and responsibilities
- Quality control and quality assurance
- Inspections, tests and approval of construction activities
- Method statements
- Measurement and payment certificates
- Supervision and site management, including good record keeping

Benefits include:

- Comprehensive training manual for pipeline supervision that will serve as a reference manual
- Checklists for excavation, bedding, pipe laying, backfill and structures
- Supervision advice and tips
- List of key success factors
- CPD credits (ECSA)

Presenter:

John Cato Pr Eng, BSc (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 / 011 476 4100

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

REGISTRATION

To register, visit www.candidateacademy.co.za
OR email 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 pipeline construction projects
- Assistant Resident Engineers, Principal Agents, Employer's Agents representatives, or Project Engineers from Government bodies working on pipeline construction projects
- Resident Engineers, Employer's Agents representatives or Principal Agents with limited experience

COURSE CONTENT

CONSTRUCTION PROJECTS

- Functions and focus of role players
- Contractual matters and documents
- Resident Engineer's duties and responsibilities
- Effective engagement with the community
- Site establishment

QUALITY ASSURANCE

- Quality Control Plan (QCP)
- Registers and inspection requests
- Method statements and trial sections
- Visual inspections
- Checklists
- Material testing

SITE SUPERVISION PIPELINES

- Setting out
- Excavation
- Bedding and backfill
- Pipe laying
- Valves and fittings
- Structures
- Testing and commissioning

SITE SUPERVISION

- Project Life Cycle and Knowledge Areas
 - Time management - Timeous decisions
 - Scope management - Contract documentation
 - Cost management - Payment certificates
 - Quality management - Specifications
 - Risk management - Risk mitigation
- Problem solving techniques
- Key success factors
 - Good relationships
 - A balance between too strict and too lenient
 - Applying the give and take principle
 - Engineering judgement
- Traits of a good Resident Engineer

ABOUT YOUR FACILITATOR

John Cato completed his BSc(Civil) at the University of Kwazulu Natal and started his career at Group Five Roads. He then moved to consulting engineers and designed and supervised various infrastructure projects. He also worked in Ireland designing and implementing various water, sewer, stormwater and roads projects. Upon his return to South Africa, he implemented and supervised various water infrastructure projects from pipelines, RC reservoirs, rising mains and treatment works. He recently supervised the construction of a bulk water pipeline for Rand Water.

In-house courses can be arranged.
Contact Lizelle at lizelle@saicepdp.org for more information.

WHAT TO BRING TO THE COURSE

- Pencil and eraser
- Ruler
- Scientific calculator



**candidate
academy**
the road to registration – tower above the rest

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.