



Method Statements in Construction Projects

**Webinar Series 2022:
May Overview**

**Inside:
Industry
Vacancies &
Events**

The Importance of CPD Compliance

**Profile on SA's First Female Construction
Management Professor**

**Call for Papers:
ASOCSA16th Built
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The South African Council for the Project and Construction Management Professions

— CONSTRUCTING NEW PERSPECTIVES —

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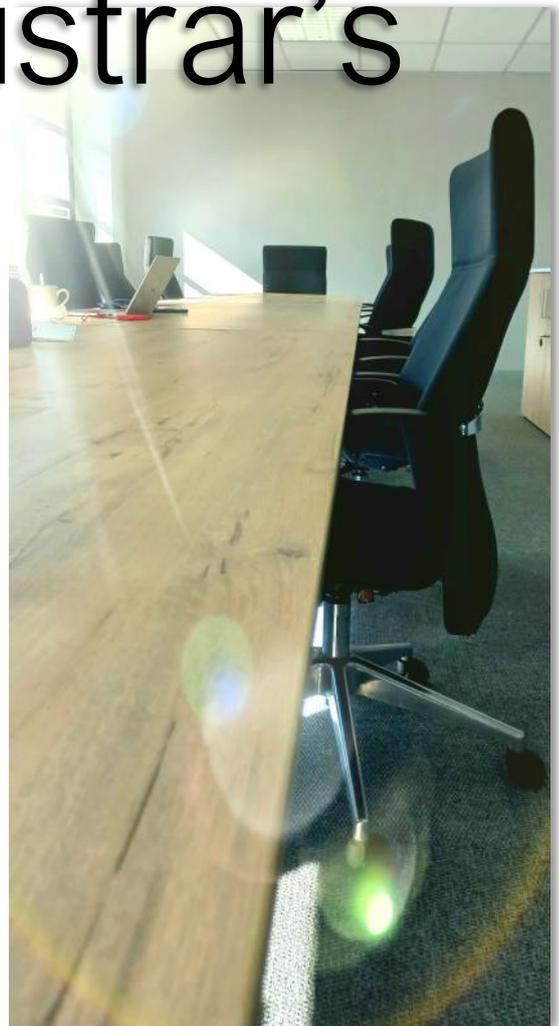
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From the Registrar's Desk



As the wintry weather envelops South Africa in its move to a new season, the SACPCMP too has kept itself on a new, steady track in terms of its operations.

Settling well into its new office premises, the SACPCMP has been delighted to open its doors once again to stakeholders. The team has taken up the new offices with positivity and gusto.

Office Address Reminder

I would like to remind all that the new SACPCMP premises are located at:

Rigel Office Park (Second Floor, Block A), at 446 Rigel Avenue South in Erasmusrand, Pretoria.

The office is open to the public between 09:00 and 15:00, from Monday to Friday.

The past months have also kept us busy in focusing on the updating and/or developing of Council policies that will better support the mandates of the entity. The balance of 2022 will see the rollout and communication of these policies, so I encourage you to keep your eye on the SACPCMP's

Shape Shifter to keep apprised of some exciting new developments.

Another Successful Webinar

In addition to policy-development, the Council presented its second webinar in May – this was part of the SACPCMP's online webinar series. We were pleased to have the event highlight key issues facing the Construction Industry such as transformation and mental wellbeing, as well as offering three CPD hours.

In keeping CPD-awareness at the fore, this edition of Shape Shifter again includes information regarding the CPD requirements that Registered Persons should take cognisance of – this in an effort to regularly remind our stakeholders of the importance of continuing professional development.

Focus on Women

Our focus on women in the Construction Industry profiles Prof. Abimbola Windapo, South

Africa's first woman professor of Construction Management.

This edition also features a detailed look at the relevance of method statements in the Construction Sector, provided by one of our contributing authors, Uwe Putlitz. The article includes an excellent checklist for our stakeholders to utilise.

Here's wishing you happy reading!
Best wishes everywhen,

Butcher Matutle
Registrar: SACPCMP

HOW TO ACCESS YOUR

Registration Certificate

Step 1:

Visit mypcm.sacpcmp.org.za

or

mychs.sacpcmp.org.za

and log into your online profile.

Step 2:

To view & access your certificate via the 'View your Certificate' tab.

The screenshot shows the SACPCMP dashboard with a navigation bar (DASHBOARD, COMMUNICATIONS, DESIGNATION, CPD, LOGOUT) and the SACPCMP logo. Below the logo are three main sections: 'My Profile', 'My Designation', and 'Apply for Designation'. The 'My Profile' section contains buttons for 'Update Now', 'Create Validator', 'View your Certificates', and 'View your Registration Details'. A large green arrow points from the 'View your Certificates' button to the 'View your Certificates' tab in the next screenshot.

The screenshot shows the SACPCMP profile page with a navigation bar (DASHBOARD, COMMUNICATIONS, DESIGNATION, CPD, LOGOUT) and the SACPCMP logo. Below the logo is a horizontal menu with tabs: Change Password, Biographical, Communications, Education, Employment, Financials, Documents, Archive, and SAQA. The 'Documents' tab is selected, showing a 'Corporate' section. Below this is a table with two rows: 'Profile Link' with the URL 'https://cutt.ly/1746963248' and a 'View' icon, and 'Link with logo' with the SACPCMP logo and tagline 'CONSTRUCTING NEW PERSPECTIVES'. Both rows have a 'Copy' button.

Step 3:

You can also:

- Copy & insert your profile link into your email signature.
- Create your unique validator by clicking on 'Create Validator'; then click on the 'General Validation Key'.

To register or for more information, visit: www.sacpcmp.org.za

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— CONSTRUCTING NEW PERSPECTIVES —

Webinar Round 2

The second in a series of SACPCMP webinars took place on 26 May, and as with the inaugural event, enjoyed excellent presentations and positive feedback from attendees.

The event offered three CPD hours with the following speakers discussing key topics affecting the Built Environment:

Former Economic Policy Advisor at National Treasury, Finmedia Economist of the Year recipient (and son of the late, former Foreign Minister, 'Pik Botha'), Dr. Roelof Botha's presentation was titled: Economic Recovery Remains on Track. He looked at:

- Prerequisites for sustained growth & employment creation;
- New business-friendly policy approach starting to materialize;
- Reasons for the resilience of the Rand exchange rate;
- Key drivers of economic growth;
- Overview of construction sector indicators.



ERWIC 2020 Women-owned Contractor of the Year Award winner, Revona Botha spoke on barriers for women working in the Construction Industry.

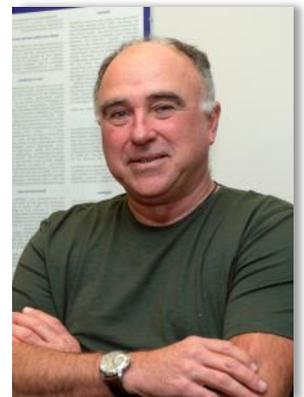


Revona discussed some practical interventions to addressing these barriers.

An excellent example of a dynamic woman succeeding in the Built Environment, she is the Managing and Technical Director of Robus Engineering Training Services, and was also the overall winner in the Standard Bank Top Women's Award (2017): Women in Construction.

The topic of Wellbeing in the Construction Industry rounded off the webinar. This was presented by Prof.

John Smallwood of the Department of Construction Management at Nelson Mandela University



and the Principal of Construction Research Education and Training Enterprises. He is also a regular contributor to Shape Shifter.

The session noted that globally, mental health features as the predominating construction health and safety issue. The presentation looked at, among other things, the need to address occupational health and primary health issues, reinforced by the experience of fatigue and stress among construction workers, supervisors, and managers, which is a manifestation of, among others, compressed project schedules, which result in extended working hours.

Keep an eye out for future Shape Shifter editions which will include more on info on our May 2022 webinar presentations.

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SACPCMP Speaks at NAFBI 2022 Conference

Working Towards Job Creation

The forging of sustainable alliances and partnerships for job creation was the theme of the National African Federation for the Building Industry's (NAFBI) 2022 Conference, which saw the SACPCMP participate as an event speaker.

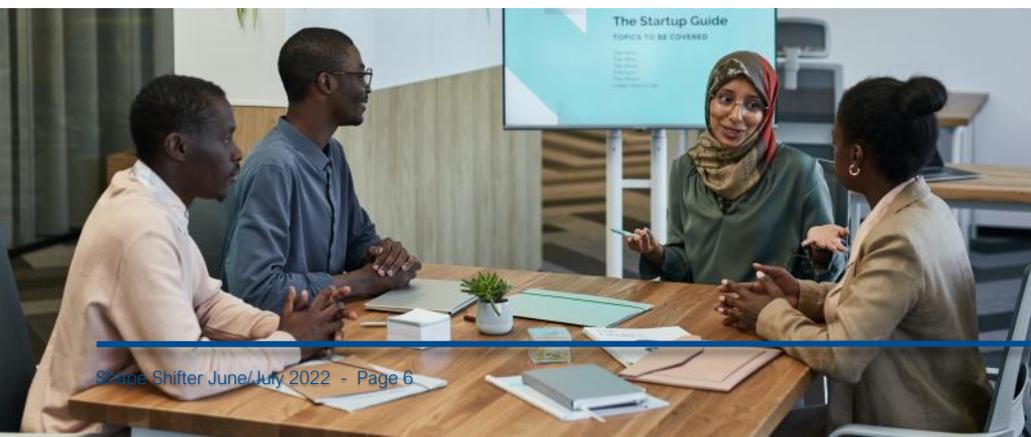
Ms. Sindi Kwenaithe, who manages the Council's Education Portfolio, represented the SACPCMP at the conference: "The theme of this conference took me back to our (May) SACPCMP webinar, where we had award winning economist and economic advisor, Dr. Roelof Botha, present an optimistic outlook for South Africa's economy, with several record highs achieved in various sectors in the last two financial years.

"The statistics presented an analysis of the national budget gave credence to the infrastructure led economic recovery plan," said Ms. Kwenaithe.

"However, in this he cautioned about the challenges facing South Africa, notwithstanding the conflict in Ukraine which may plunge the world into an economic recession, which foreground this positive outlook. Some of these key challenges are:

- A decade of sub-optimal economic growth
- Under-developed regional economies
- High unemployment
- Income inequality
- Slow pace of reforms to economic policy

If left unchecked these represent a societal powder keg which has the potential to derail any efforts for economic recovery.





Working Towards Job Creation

“The theme of this year’s conference deals with a societal existential question of Job Creation - South Africa has been going in the wrong direction and that is threatening the very fabric of Society, Communities and Families. But it is about being proactive and creating a space for partnerships to be forged that may ultimately lead to the creation of jobs”.

Ms. Kwenaithe prefaced the SACPCMP’s stance, from a regulatory perspective, on the

subject of job creation: “Nadine Todd’s foreword article of the Entrepreneur (December 2016), in which she discusses a thought model which is flawed through a skewed focus on elements which are not within our realm of control said: *“The problem is that while actions are largely within our control, outcomes are not – and yet we tend to invest heavily in outcomes instead of processes”*.”

The outcome of sustainable job creation is on point, however as an outcome, it gives us direction.

One of the key endeavours for the SACPCMP is to get us to reflect on what we individually and/or collectively control, and consider whether we share a relatively common understanding of what sustainable jobs look like and deliver, for any meaningful alliances and partnerships to be formed.

These are the foundational aspects that will get us to effectively address Sustainable Job Creation.

As a regulatory body, we are legislatively and resourced-hamstrung to actively participate in job creation. We are compelled to focus on the processes that get us to sustainable job creation.

Let me offer what it means to the SACPCMP...

One of the key tenants is “decent work” as defined by the International Labour Organisation (ILO): *“Productive work for Women and Men in conditions of Freedom, Equity, Security and Human Dignity”*.

The SACPCMP believes that for Decent Work to be sustainable, it needs education as one of the key ingredients.

Working Towards Job Creation

The SACPCMP's sphere of control and influence (focusing on the processes towards the desired outcomes) has developed policy approaches and instruments which form an ecosystem through which the question of job creation, for example, becomes a core competence of our registered professionals.

There are also keen areas of interest for the SACPCMP which feed into the broader public imperatives, such as equity in job creation to address long-standing inequalities perpetuated in our economy that still disproportionately impact the historically disadvantaged. When looking at infrastructure led economic

recovery, it is also important to ensure that the recovery actively reverses long-existent inequalities in job creation within the construction industry, which for the SACPCMP mainly speaks to access to the profession for women and Africans.

Utilising Partnerships

The question arises - how do we, as a regulator, acknowledge and address real-world impediments to access which fall outside our mandates in a proactive manner.

This is where partnerships become quite useful.

We create criteria for industry representative bodies, such as Voluntary Associations, who require recognition from us, that encourage them to address issues of transformation for the good of the profession.

These include endorsement of initiatives and programmes which are created to support the historically disadvantaged and as such create mechanism for access.

Role Players

As with the SACPCMP, there are role players in the value chain of

An example of this is:

Public Policy Priorities such as sustainable development (which include designing and managing for labour based and intensive construction methodologies, and green house gas mitigation, amongst others), are critical to the desired competence attributes in terms of skills, knowledge and attitudes our Registered Persons should embody and deploy in professional practice.

This in turn is embedded in the requirements of Continuing Professional Development (CPD) and educational programmes through our CPD and accreditation policies and curriculum frameworks.

For example: Ensuring that through Work-Integrated Learning graduates are employable when they exit their various educational programmes.

This represents the SACPCMP's own actions to progressively contribute to the value chain processes of education (directly) which then impact job creation indirectly by ensuring that our Registered Persons have the relevant competence/capability to deploy in their professional practice to be gainfully employed and potentially create jobs.



Working Towards Job Creation

job creation for the construction sector, whose contribution has a direct or indirect impact.

Realising the importance of all of these role players is key to addressing the issue of unemployment wholistically and eliminating tunnel vision which may hamper the achievement of the ultimate goal of creating “decent work”, meaningful and sustainable jobs.

The Result of Focus

By focusing on, and investing in the processes, each and every one amongst us control, the desired outcome of sustainable job creation is attainable. We avoid wasted resources and efforts on matters outside of our ambit which cannot provide a meaningful impact or may yield minimal results in the long term.

Our potential alliances and partnerships will hinge on the value contribution of the various processes we individually and/or collectively control and influence.

We as the SACPCMP, are open to alliances and partnerships that are progressively realising Decent Work through employment and education enablers.”

(Source: NAFBI 2022 Conference Speech by Ms. Sindi Kwenaithe (pictured above), SACPCMP Education Portfolio Manager)



WITS Vacancies

UNIVERSITY OF THE
WITWATERSRAND,
JOHANNESBURG



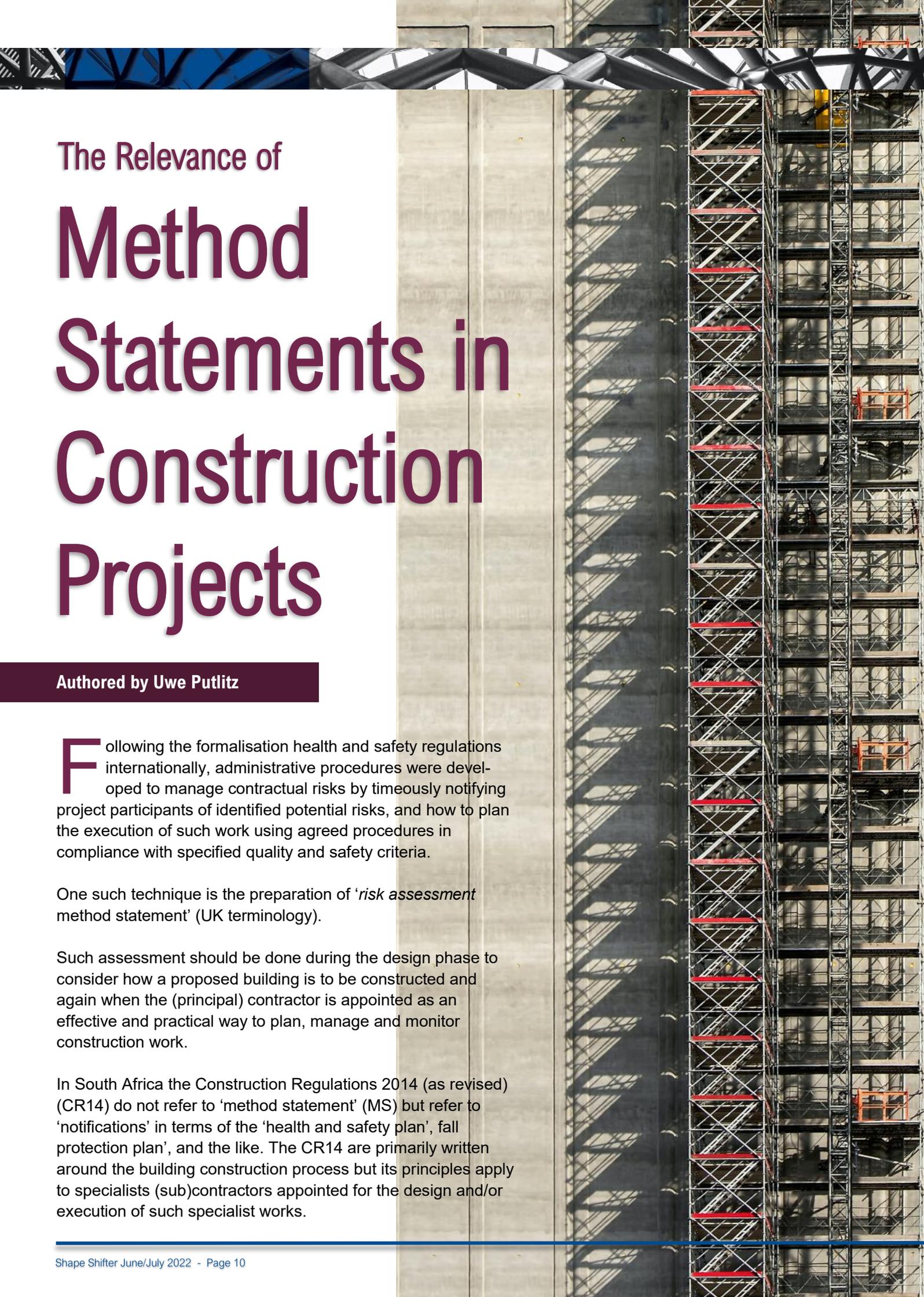
100
1922
2022

The University of the Witwatersrand, Johannesburg (WITS) currently has a number of academic vacancies at the Wits School of Construction Economics and Management.

The following vacancies are available:

- Associate Professor (x1)
- Senior Lecturers (x2) in Quantity Surveying/Construction Management/Property Studies

The details can be found on the WITS website: <https://www.wits.ac.za/vacancies/>



The Relevance of Method Statements in Construction Projects

Authored by Uwe Putlitz

Following the formalisation health and safety regulations internationally, administrative procedures were developed to manage contractual risks by timeously notifying project participants of identified potential risks, and how to plan the execution of such work using agreed procedures in compliance with specified quality and safety criteria.

One such technique is the preparation of '*risk assessment method statement*' (UK terminology).

Such assessment should be done during the design phase to consider how a proposed building is to be constructed and again when the (principal) contractor is appointed as an effective and practical way to plan, manage and monitor construction work.

In South Africa the Construction Regulations 2014 (as revised) (CR14) do not refer to 'method statement' (MS) but refer to 'notifications' in terms of the 'health and safety plan', fall protection plan', and the like. The CR14 are primarily written around the building construction process but its principles apply to specialists (sub)contractors appointed for the design and/or execution of such specialist works.

Method Statement in Construction Projects

The “duties of the designer” may apply (paraphrased to extract key compliance criteria):

- To consider possible health and safety risks arising from the design that may arise during construction and/or installation, and thereafter by the user in the day-to-day operation;
- To notify the employer/ employer’s representative if a specified products or a proposed installation is unlikely to not conform to the CR14 or applicable standards;

A (sub) contractor (paraphrased to extract key compliance criteria):

- May be instructed by the principal contractor and/or the consulting design engineer to prepare a MS to illustrate the integration on site of his/her work and that of other contractors;
- Must notify the principal contractor and/or the consulting design engineer on becoming aware of dangerous procedures during construction and/or installation.

A MS is generally compiled by the principal contractor and/or by specialist (sub) contractors after a risk assessment. (CR14 -§ 9 “risk assessment” – 9.1 (c) refers to “a documented plan and applicable safe work procedures to mitigate, reduce or control the risks and

hazards that have been identified” and 9.2, “A contractor must ensure that as far as is reasonable practicable, ergonomic related hazards are analysed, evaluated and addressed in a risk assessment” and 9.3, “A contractor must ensure that all employees under

his or her control are informed, instructed and trained by a competent person regarding any hazard and related work procedures and or control measures before any work commences”... (not necessarily a complete list nor in order of priority):

1. Works – permanent

- Description of the task;

2. Works – temporary

- will temporary works have to be provided to build the permanent works?

3. Specification Documentation

- Include measurable performance criteria to monitor performance, assess costs and duration(s);
- Reference to company standard operating procedures and similar manuals;
- ‘Lessons learned’, if available or if applicable from previous projects;

4. Legislation and or Standards

- Reference to applicable legislation and standards;

5. Contract

- Reference to Standard-form Contract, and other contract documents – the latter must highlight high risk activities identified in the ‘design risk assessment stage CR16: 6.1(d);

6. Manpower

- The number of skilled personnel’ required;
- The number of support personnel’ required;
- (Special) tools required, if so - how sourced or if readily available;
- In addition to normal Personal Protection Equipment, specific equipment required such as harnesses, masks if the operations will generate dust or noxious fumes;
- Awareness - how each person must protect him or herself and their co-workers from injury or hazards;

For example, can one or more persons lift and/or safely handle identified materials or plant within the available space at the level where work is to be executed?

Method Statement in Construction Projects

7. Environment

- Weather conditions that may influence (delay/postpone) planned procedures ;
- Working overhead / on scaffolding / off a ladder or of swing scaffold?
- Site conditions – soil conditions | working over water?
- Neighbouring owners – crane swing over their property, access, noise, dust?
- Local community – source of labour, may sabotage the work?

8. Training

- Specialised training – if required – at a date/ duration time / place / cost?

9. Construction Equipment

- The use of construction equipment – if available / to be sourced and/or erected;

10. Programme

- The (logical) sequence and duration of operations;
- As anticipated at design/tender stage – or on site to meet completion dates;

11. Costs

- Is the 'allowable amount' derived from the tendered costs adequate for the task?
- Is the project / task feasible ie: possible and practical to achieve the objective?
- Is the project / task viable ie: capable of working successfully, to achieve specified financial results?

12. Other criteria

- Identify possible (contract works/removal of support/public liability) insurance implications.

Note that CR14 in 11.2, "structures" requires the owner (client) to ensure that:

"(a) inspections of that structure are carried out periodically by a competent person in order to render the structure safe for continued use; and

(b) that the inspections contemplated in paragraph a are carried out at least once every six months for the first two years and thereafter yearly; and

(c) the structure is maintained in such a manner that it remains safe for continued use; and

(d) the records of inspections and maintenance are kept and made available on request to an inspector."

When preparing a MS, reference must be made to the following sections in CR 14, where applicable:

- 12 Temporary works – appointment of a temporary works designer and a risk-based methodology;
- 13 Excavations;
- 14 Demolition – specifically refers to a 'method statement' prepared by a structural engineer;
- 15 Tunnelling (see Mining Act);
- 16 Scaffolding;
- 17 Suspended platforms;
- 18 Rope access work;
- 19 Material hoists;
- 20 Bulk mixing plant;
- 21 Explosive actuated fastening devices;



Method Statement in Construction Projects

- 22 Cranes;
- 23 Construction vehicles and mobile plant;
- 24 Electrical Installations and machinery on construction sites;
- 25 Use and temporary storage of flammable liquids on construction sites;
- 26 Water environments;
- 27 Housekeeping and general safeguarding construction sites;
- 28 Stacking and storage on construction sites;
- 29 Fire precautions on construction sites;
- 30 Construction employees' facilities; (additional 'Covid 19' precautions)

During the design phase, much the same criteria apply – to be assessed by the professional team and the Health and Safety Consultant, if appointed.

The focus of design risk assessments is to:

1. Determine the “safe” ‘buildability’ of a design;
2. Confirm the appropriate choice of materials and/or plant;
3. Confirm the availability of materials and/or plant;
4. Anticipate the most appropriate form of construction by evaluating alternatives to feasibility (practical) + viability (meet specified financial criteria) ;
5. Imagine the final product – will this satisfy the requirements of the brief?

MS ‘Failures’:

1. Not undertaking a project specific risk assessment;
2. Non-compliance with current statutory regulations;
3. Reusing MS from previous projects that are not applicable to the current project.

MS Writing Style:

1. Use plain and concise language to reduce misunderstanding;
2. Avoid jargon and / or abbreviations not meaningful to the average user;
3. Use drawings or pictures to illustrate the text;
4. If applicable, use company branding / logo etc to give the document a formal status;

5. Review the document as work progresses, and on completion, to confirm assumptions or revise the MS to record ‘lessons learned’.

A MS should be a comprehensive bespoke document addressing all identified potential risks – but beware that one or more important ‘risks’ may not have been identified during the inception stages of a project.

Linking the drafting of MS to a quality and technical compliance checklists for each project phase may stimulate the timely preparation thereof (compliance schedule/hold points 5.2.8). Thus, a MS must be a ‘live’ document to be reviewed and updated as soon as any additional information becomes available.

About the Author

Uwe Putlitz is a registered professional Architect and Construction Project Manager, a Fellow of the Royal Institute of Chartered Surveyors (RICS) and is a visiting lecturer at the School of Construction Economics and Management at the University of the Witwatersrand.

Having recently retired as the Chief Executive Officer of the Joint Building Contracts Committee (JBCC), he specialises in the avoidance of construction disputes by way of lectures, technical articles dealing with aspects of contract administration for various industry publications arising from the use of Standard-form Contracts including, the Federation Internationale des Ingenieurs-Conseils (FIDIC), the General Conditions of Contract (GCC), or the JBCC or the New Engineering Contract (NEC) to find an acceptable settlement without resorting to legal processes, where possible.



For more information, visit: info@buildstrat.co.za

Method Statement in Construction Projects

Check List - Quality Compliance (Appendix A)							
Programme hold points to verify compliance with standards, (quality) specifications or contractual obligations							
Item	Component	Location	Responsibility	Criteria	When	Frequency	Certificate
	An aspect of or part of the Works – or tasks	Generally on site within the Works, may be at the manufacturer or importer of plant and other equipment	OD Owner / Developer LA local authority A architect QS quantity surveyor PA principal agent PM constr. project manager LS land surveyor AL landscape architect SE structural engineer ME mechanical engineer EE electrical engineer FE (rational) fire engineer WE wet services engineer IE IT engineer AE acoustics engineer ID interior designer HS health & safety officer C principal contractor CM construction manager SSC specialist (sub)contractor	Included in project specification, refer to SABS or SI standards Or as applicable If not specified – how is compliance measured?	As specified as work progresses, more often if non-compliance is observed	As specified as work progresses, more often if non-compliance is observed	Of critical importance to follow assessment procedures and to retain proof of tests and statutory compliance certificates – and contractual certificates
A	NBR Building Plan approval		OD A LA		Before commencement of construction		Approved Building Plans
B	OH&SA Construction Work permit		OD (PC for 1storey dwelling)		Before commencement of construction	Application 30 days before commencement	Approved Construction Work Permit
1.0 SITE							
	COMPONENT	LOCATION	RESPONSIBILITY	CRITERIA	WHEN	FREQUENCY	CERTIFICATE
1.1	Survey drawing SG diagram site plan	Works - boundary pegs, datum, relative levels	LS PA or A PC	Position + accuracy (Correct site?)	Site handover to contractor	once	Contract: Set-out Certificate SoC
1.2	Photo Record	Works	PA or A PC	Photos of any damages Items to be preserved	Site handover to contractor	once	Add to SoC
1.3	Bulk earthworks: cut+ fill > Compaction	Works	SE LS PA A QS HS PC SSC > laboratory	Compaction tests (per spec)	On notice from PC SSC	Suit extent of Works	Test results if ok/ if no= non conform notice
1.4	Stabilise embankments	Works	SE PA or A QS HS PC SSC	(compaction) tests (per spec)	On notice from PC SSC	Suit extent of Works	Test results if ok/ if no= non conform notice
1.5	Excavations	Works	SE PA or A HS PC SSC > laboratory	Ground water? soil founding condition	before pouring concrete	> all sections complete	Test results if ok/ if no= non conform notice

Method Statement in Construction Projects

2.0 FOUNDATIONS							
	COMPONENT	LOCATION	RESPONSIBILITY	CRITERIA	WHEN	FREQUENCY	CERTIFICATE
2.1	Set out foundations	Works	SE PA LS? PC SSC	Position + accuracy	On notice from PC SSC	Suit extent of Works	Contract: Set-out Certificate SoC
2.2	Strip foundations	Works	SE PA PC SSC	Concrete test results Confirm reinforcing ok?	On notice from PC SSC	After 7/14/28 days	Test results if ok/ if no= non conform notice
2.3	Piled foundations	Works	SSC PC SSC	Concrete test results Confirm reinforcing ok?	On notice from PC SSC	After 7/14/28 days	Test results if ok/ if no= non conform notice
3.0 STRUCTURE							
	COMPONENT	LOCATION	RESPONSIBILITY	CRITERIA	WHEN	FREQUENCY	CERTIFICATE
3.1	Concrete	Works	SE PA or A PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Accepted test results
3.2	Structural steel	Works	SE PA or A PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Accepted test results Compliance Certificate?
3.3	Structural Brick-work	Works	SE PA or A PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate?
3.4	External wall finishes	Works	SE PA or A PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate? Product guarantee
3.5	Walls below ground waterproofing	Works	SE PA or A PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate? Product guarantee
3.6	Window	Works	SE (façade?) PA or A PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Glazing Certificate? Product guarantee
3.7	Doors	Works	PA or A PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Glazing Certificate? Product guarantee
3.8	Balcony / (flat roof) Balustrade	Works	PA or A PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate?
3.9	Roof Structure	Works	SE PA or A PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate?
3.10	Roof Cladding (waterproofing)	Works	(SE) PA or A PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate? Product guarantee

Method Statement in Construction Projects

4.0	INTERNAL BUILDING FINISHES (will require multiple subcategories for each finish type)						
	COMPONENT	LOCATION	RESPONSIBILITY	CRITERIA	WHEN	FREQUENCY	CERTIFICATE
4.1	Ceiling	Works	(SE) PA or A ID PC SSC (CM)	per specifications	for practical completion	Regularly as work progresses	Compliance Certificate? Product guarantee
4.2	Walls	Works	PA or A ID PC SSC (CM)	per specifications	for practical completion	Regularly as work progresses	Compliance Certificate? Product guarantee
4.3	Floors	Works	(SE) PA or A ID PC SSC (CM)	per specifications	for practical completion	Regularly as work progresses	Compliance Certificate? Product guarantee
4.4	Doors	Works	PA or A ID PC SSC (CM)	per specifications	for practical completion	Regularly as work progresses	Compliance Certificate? Product guarantee
4.5	Bespoke items?						
5.0	BUILDING SERVICES						
	COMPONENT	LOCATION	RESPONSIBILITY	CRITERIA	WHEN	FREQUENCY	CERTIFICATE
5.1	Water reticulation and fixtures	Works	WE PA or A LA PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate
5.2	Water – Fire installation and fixtures	Works	FE PA or A LA. PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate
5.3	Water connection	Works	Local Authority	tests per specifications	for practical completion	Twice – for	
			PC SSC (CM)			Temporary >permanent	
5.4	Sewer installation and fixtures and fixtures	Works	WE PA or A LA PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate
5.5	Sewer Connection	Works	Local Authority	tests per specifications	for practical completion	Twice – for	
			PC SSC (CM)			Temporary >permanent	
5.6	Stormwater drainage	Works	SE PA or A LA. PC SSC (CM)	tests per specifications	for practical completion	Twice – for temporary >permanent	Compliance Certificate?
5.7	Stormwater connection	Works	Local Authority	tests per specifications	for practical completion	Twice – for	
						Temporary >permanent	
5.8	Electricity installation and fixtures	Works	EE PA or A Eskom PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate
5.9	Electrical connection	Works	OD PA or A LA / Eskom	tests per specifications	for practical completion	Twice – for	
			PC SSC (CM)			Temporary >permanent	
5.10	Data reticulation/ plant	Works	OD PA or A	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate?
			SSC				
5.11	Data connection	Works	Service Provider SSC	per specifications	For practical completion	Regularly as work progresses	
5.12	Security systems	Works	Service Provider SSC	per specifications	For practical completion	Regularly as work progresses	Compliance Certificate?
5.13	H V A C systems	Works	ME PA or A AE ID PC SSC (CM)	tests per specifications	for practical completion	Regularly as work progresses	Compliance Certificate?

Method Statement in Construction Projects

6.0 FIXTURES (Domestic)							
	COMPONENT	LOCATION	RESPONSIBILITY	CRITERIA	WHEN	FREQUENCY	CERTIFICATE
6.1	Fixtures appliances	Bedroom 1 / 2 / 3 / etc	OD PA or A PC SSC (CM)	tests per specifications	for practical completion	regularly as work progresses	
6.2	Fixtures appliances	Bathroom 1 / 2 etc	OD PA or A PC SSC (CM)	tests per specifications	for practical completion	regularly as work progresses	
6.3	Fixtures appliances	Guest suite	OD PA or A PC SSC (CM)	tests per specifications	for practical completion	regularly as work progresses	
6.4	Fixtures appliances	Laundry	OD PA or A PC SSC PC SSC (CM)	tests per specifications	for practical completion	regularly as work progresses	
6.5	Fixtures appliances	Kitchen fixtures	OD PA or A PC SSC (CM)	tests per specifications	for practical completion	regularly as work progresses	
6.6	Fixtures	Pantry	OD PA or A PC SSC (CM)	tests per specifications	for practical completion	regularly as work progresses	
6.7	Fixtures	Terrace	OD PA or A PC SSC (CM)	tests per specifications	for practical completion	regularly as work progresses	
6.8	Fixtures	Garage	OD PA or A PC SSC (CM)	tests per specifications	for practical completion	regularly as work progresses	
7.0 EXTERIOR / LANDSCAPING							
	COMPONENT	LOCATION	RESPONSIBILITY	CRITERIA	WHEN	FREQUENCY	CERTIFICATE
7.1	Perimeter fencing	Site	OD PM (PA or A) AL EE SSC	tests per specifications	for practical completion	regularly as work progresses	Sec fence certificate
7.2	Access gate - pedestrian	Site	OD PM (PA or A) AL SSC	tests per specifications	for practical completion	regularly as work progresses	Sec fence certificate
7.3	Access gate - vehicle	Site	OD PM (PA or A) AL SSC	tests per specifications	for practical completion	regularly as work progresses	Sec fence certificate
7.4	Intercom/gate motor	Site	OD PM (PA or A) AL EE SSC	tests per specifications	for practical completion	regularly as work progresses	
7.5	Paving - driveway	Site	OD PM (PA or A) SE AL SSC	per specification	for practical completion	regularly as work progresses	Compaction tests?
7.6	Paving - walkway	Site	OD PM (PA or A) AL SSC	per specification	for practical completion	regularly as work progresses	
7.7	Landscaping- grass	Site	OD PM (PA or A) AL SSC	per specification	for practical completion	regularly as work progresses	
7.8	Landscaping - trees	Site	OD PM (PA or A) AL SSC	per specification	for practical completion	regularly as work progresses	
7.9	Landscaping - flowerbed	Site	OD PM (PA or A) AL SSC	per specification	for practical completion	regularly as work progresses	
7.10	Landscaping - lighting	Site	OD PM (PA or A) SE AL SSC	per specification	for practical completion	regularly as work progresses	ECASA compliance
7.11	Water features/ pumps		OD PM (PA or A) SE AL SSC	per specification	for practical completion	regularly as work progresses	ECASA compliance

Method Statement in Construction Projects

8.1. STATUTORY COMPLIANCES						
COMPONENT	LOCATION	RESPONSIBILITY	CRITERIA	WHEN	FREQUENCY	CERTIFICATE
Approved building drawings		OD PA or A	SANS 10400 OH&SA	Before PC appointment	Once	LA letter + stamped drawings
Approved 'as built' drawings		OD PA or A	SANS 10400 OH&SA	As and when required	For LA approval at practical completion	LA letter + stamped drawings
Construction permit		OD	OH&SA	Before PC appointment	Once	Permit
Register project DOL		PC	OH&SA	on appointment	Once	Permit
Register NHBRC		PC	NHBRC SANS 10400	on appointment	Once	Certificate
Setting Out		PC LS		on completion of task		
Foundations		PC SSC SE	SANS 10400/rat design	As and when required	Until compliant	Contract certificate
Under surface bed compaction ant poison waterproofing		PC SSC SE PA or A	SANS 10400/rat design	As and when required		Compaction tests Compliance by SSC
Structure		PC SSC SE PA or A	SANS 10400/rat design	As and when required	Until compliant	SANS form
Roof trusses		PC SSC SE PA or A	SANS 10400/rat design	As and when required	Until compliant	SANS form
Safety glazing		PC SSC EE ME WE	SANS 10400/rat design	As and when required	Until compliant	SANS form
Energy efficiency		PC SSC EE ME WE	SANS 10400/rat design	As and when required	Until compliant	Energy certificate
Electrical		PC SSC EE ME	SANS 10400/rat design	As and when required	Until compliant	ECASA certificate
HVAC		PC SSC EE ME WE	SANS 10400/rat design	As and when required	Until compliant	Energy certificate
Water		PC SSC WE ME	SANS 10400/rat design	As and when required	Until compliant	IOPSA certificate
Fire		PC SSC FE ME	SANS 10400/rat design	As and when required	Until compliant	IOPSA certificate
Sewer		PC SSC WE	SANS 10400/rat design	As and when required	Until compliant	IOPSA certificate
Stormwater		PC SSC SE	SANS 10400/rat design	As and when required	Until compliant	LA compliance
Occupation Certificate		OD-PA/A/PM	SANS 10400/rat design	On completion		LA Certificate
8.2. CONTRACTUAL COMPLIANCES						
As built drawings		PM /PA / A		On practical completion		LA letter + stamped drawings
Product warranties		PM /PA / A		On practical completion		Incl certificates
Operating instructions		PM /PA / A		On practical completion		Incl certificates
Release guarantees by parties		PM /PA / A – OD /PC/SSC		Generally, on practical completion		
Confirm owner insurances		PM /PA / A – OD /PC/SSC		On practical completion		Insurance policies
9.0. TENANT INSTALLATIONS						
	To suit					
COMPONENT	LOCATION	RESPONSIBILITY	CRITERIA	WHEN	FREQUENCY	CERTIFICATE

SPOT CHECK

for Registration Certificate Authenticity

Ensure the validity and authenticity of the SACPCMP registration certificates you receive by verifying the following points...

As of 1 April 2020, the SACPCMP updated its certificate format. No other certificate formats (including Privy Seal) are currently valid.

Certificates* have a unique QR code which links directly to the SACPCMP's online validation system. Scan this code to see if the name on the certificate matches the name shown by the online validator. If the name on the certificate does not match the online validator, the certificate is not legitimate!

**QR code verification was fully implemented in February 2021. As such, certificates downloaded prior to 05 February 2021 may not show the QR code. This does not affect the validity of the certificate but only the ability to verify via the QR code validator. Where no QR code is present, one can validate the Registered Person associated with certificate using the search/validation links above.*

SACPCMP
The South African Council for the Project and Construction Management Professions
— CONSTRUCTING NEW PERSPECTIVES —

Validation of Registration Status

The South African Council for the Project and Construction Management Professions (SACPCMP) confirms the registration status of

Registered Person's Name

who is currently registered as a

Construction Health and Safety Manager

Registration Number
CHSM/202/2000

The validity period of this registration is from
01 Apr 2022 to 31 Mar 2023

This is issued as an official validation of registration of the individual mentioned herein by the SACPCMP. The South African Council for the Project and Construction Management Professions (SACPCMP) is a juristic person established by Section 2 of the Project and Construction Management Professions Act (Act No.48 of 2000) to regulate Project and Construction Management Professionals.

The use or reproduction of this validation document for any reason other than that the validation of the registration status of the individual mentioned herein is strictly prohibited and offenders will be subject to prosecution.



Registered Person's name and surname: this name can be checked via the online search function via: mypcm.sacpcmp.org.za or mychs.sacpcmp.org.za

Registered Person's official and unique registration number

The validity period of certificates shows for ONE year only, and runs in line with the SACPCMP's financial year. Certificates with a validity date pre-2020 are not legitimate.

Vacancy / Professional Opportunity

OASIS



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Invest in a long term career at Oasis

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Quantity Surveyor

We are looking for QS with extensive experience in Retail Shopping Centre/ Industrial Warehouse/Commercial Properties/ Office parks & Residential Developments with 5 or more years of post-qualification relevant experience.

• Key Responsibilities:

- Undertake feasibility studies on new developments and improvements including NPV/IRR calculations and accurately compute contract values.
- Perform project risk management and evaluate commercial risks of a new-build. Implement the robust procurement strategy and cost control process.
- Preparing tender documents and contracts, including a Bill of Quantities. Prepare and analyse costing for tenders considering plans and using best available price. Attend tender briefing meetings.
- Conduct tender evaluation. Make recommendations to management on allocation of work to contractors, subcontractors and professional fees.
- As an in-house QS, minimise the project cost and hold service providers strictly accountable. Prepare trend analysis and forecasting of project costs and cash flows relative to budget.
- Provide advice on contractual claims and manage variations. Attend all site progress meetings. Value completed work and issue payment orders, less any retention.
- Produce periodic detailed project progress reports and analyse project outcomes relative to the project plan including cost reports, cash flow reports and variation orders.
- Undertaking costs analysis for repair and maintenance work.

Qualification

- Minimum B.Eng. or B.Sc /B.Sc Hons/M.Sc degree specialising in Quantity Surveying with a strong academic profile. (MBA would be an added advantage)
- Professional QS (Pr.QS)

Key Requirements

- 5-8 years' experience as a QS gained at a medium to large sized reputable Property / Construction / Engineering or independent practice.
- Proficiency in use of automated QS tools (CCS Candy, WinQS) and good command of Microsoft Project. Good working knowledge of MDA would be an added advantage
- Knowledge of health and safety regulations.
- Detailed knowledge of building regulations including relevant legislation, regulations, and ordinances governing property.
- Firm understanding of building / engineering contracts and their application ideally with commercial / industrial experience.

Remuneration

- A highly attractive and competitive remuneration structure. Further details provided upon interview. WE REWARD EXCELLENCE!

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The Importance of CPD Compliance



In the previous edition of Shape Shifter, the CPD cycle-ending process was discussed and explained as the SACPCMP started a new financial year on 1 April 2022. The CPD Cycle runs parallel to the Council's financial year, meaning the 31st of March each year marks the end of a CPD cycle for certain registered professionals. (Authored by Khutso Mogkehle)

The Continuing Professional Development (CPD) Cycle is five years; it is important for a registered professional to know when their CPD Cycle starts and when it ends so that all the necessary CPD activities can be done and achieved in a timely manner and without pressure within those five years.

In a case where a registered professional is not compliant with CPD at the end of a cycle, they will be required undertake a remedial programme (12-month grace period).

Failure to comply with this after the stipulated period leads to suspension, followed by deregistration. Therefore, it is

necessary to regularly track and record your CPD Progress.

Deregistration and Certificate Renewal

SACPCMP grants qualifying professionals' registration with the Council by validating the competency of the registered professionals to operate and work in the Built Environment. The registration is a once off process; however, once you are registered, there are two main things you need to do in order to maintain your registration:

1. Certificate Renewal

Renewing your SACPCMP certificate is based on the payment of your annual fees.

This keeps you in good standing with the Council and, gives you access to a valid registration certificate every financial year.

2. CPD Compliance

CPD is the Council's means of being able to track and monitor your professional development over and above your initial competency during registration. Regularly participate in CPD activities on an annual basis, during the five year cycle, so that you are compliant at the end of the cycle.

It is therefore necessary for the registered professional to understand that the above are necessary but also independent of each other.

The Importance of CPD Compliance

The Registration Certificates are renewed annually and CPD compliance is measured every five years. Failure to comply with one or both may result in deregistration.

Tracking and Tracing CPD

The SACPCMP online CPD Platform also allows you to submit (upload) CPD Records on the system from the comfort of your home or office and at any time.

You are encouraged to upload CPD evidence as and when each activity is completed. This will allow you to track how much CPD Hours you have accumulated for each category, in real time. The Council's online system also allows you to download your CPD statement at any time.

Being able to track your CPD progress allows you to have a strategy and plan for what skills you need to acquire, which CPD activities you need to engage in and how to manage your time effectively.

Manage your Compliance

However, there are situations where registered professionals still fall behind on CPD for various reasons. It is important to note that in many cases, registered professionals

CATEGORY A: CPD ACTIVITIES			
Core knowledge	Acceptable CPD Evidence	Non-Core knowledge	Acceptable CPD Evidence
1. Academic studies: Certificate, diploma, post-graduate diploma, degree, masters, doctorate	University certificate & curriculum	1. Computer training	Certificate & attendance register
2. Local and/or international accredited conferences/ congresses	Certificate of attendance	2. Technical/ professional annual general meetings	Certificate & attendance register
4. Registered formal educational meetings	Attendance register	3. Refresher courses	Certificate of attendance
5. Seminars	Certificate of attendance	4. Accredited research colloquia; presentations	Research paper
6. Workshops	Attendance register/certificate		
7. Accredited short courses in: <ul style="list-style-type: none"> • Technical training • Management aspects • Financial aspects • Professional ethics • Health and safety • Project management • Planning 	Certificate with CPD points/hours		
8. Peer-reviewed research thesis/dissertation/journal papers in CPM, CM & CHS non-refereed conference/journal papers; monographs/books	Conference/ journal paper/ thesis/dissertation		

could be compliant with CPD based on the activities they have engaged in but if the information is not captured on the system, you will never know how far you have progressed with your CPD.

Acceptable Evidence

As a registered professional, you need to familiarise yourself with what is Acceptable Evidence according to the CPD Policy for each Category and sub-category.

From looking at the tables included in this article (the table on this page shows details

pertaining to CPD Category A; the table on the following page provides details of the CPD Categories B and C), you might realise that you do have the necessary CPD evidence that you can submit and be compliant.

CPD is meant to be easy and attainable, and it can be frustrating if you do not know what you need to do.

For more details on CPD, contact Khutso Mokgehle at the SACPCMP via: Khutso.Mokgehle@sacpcmp.org.za

The Importance of CPD Compliance

CATEGORIES B & C: CPD ACTIVITIES			
Category B: Mentoring	Acceptable CPD Evidence	Category C: Ongoing Practice	Acceptable CPD Evidence
1. Signing of commitment and undertaking to mentor registered candidate towards professional registration	Signed commitment and undertaking form & candidate's candidacy application	1. Unbroken continuous work/service	Letter of service signed by Human Resources/direct supervisor on company letterhead
2. Mentoring registered candidate	Signed assessment report/logbook (by candidate & mentor)	2. On the job training	Attendance register/certificate
3. Mentoring experiential learner in work integrated learning programme	Signed-off logbook (signed by mentor)	3. Teaching and training work	Appointment letter/letter of service/recommendation (on an official letterhead of the company appointing the registered person)
4. Informal mentoring of staff on the job	Letter of confirmation by employer on company letterhead (signed by mentor and mentee) and <i>curriculum vitae</i> of mentee	4. Examiner/moderator for accredited relevant exams	Appointment letter
5. Training of contractors in Project and Construction Management work (extends to include specified categories).	Appointment letter or signed-off logbook (signed by contractors/mentee)	5. Assessor/councillor in Council committee	Appointment letter/confirmation on the company letter head
6. Professional consultancy services provider (to government and private sector)	Project appointment letter and completion certificate	6. Serving in committees of recognised Voluntary Association (VA)	Appointment letter and or confirmation letter from the VA
7. Training of community members in Project and Construction Management work (extends to include specified categories).	Appointment letter/ thank you letter from the community	7. Researcher/ lecturer or professor	Appointment letter/letter of service/recommendation (signed on an official letterhead of the company appointing the registered person)
		8. Industry experience	Letter of service by company/Voluntary Association
		9. Professional position held in company	Letter of service signed by Human Resources/direct supervisor on company letterhead/

Alpha Abimbola!

A lady of firsts

It's highly likely that you have heard of Professor Abimbola Windapo ... She has been highlighted in the media recently noted her as both South Africa and Nigeria's first women professor of Construction Management, and Shape Shifter is delighted to have her as the focus of this edition's Woman in Construction.

In a country where transformation is a primary focus point, Professor Abimbola Windapo has most definitely hit the bulls-eye when it comes to success and the promotion of women in the Construction Industry.

Not only is she the first female Professor of Construction Management in South Africa and Nigeria, but her journey has been awash with accolades and awards. She was awarded the EBE Faculty emerging and departmental research award at University of Cape Town (UCT) in 2015 followed by the Emerald Best Paper prize at the IRC in 2017, as well as the Singapore Institute of Building Limited Best Paper.

But there's more!

She has previously supervised (or is currently supervising) more than 20 groups of Honours, more than 60 Masters by Coursework, six MPhil., and over a handful of PhD students. The magic of her working with these students has borne fruits: "I have undertaken postgraduate research supervision for the past 15 years and one of my Project Management Master's students was awarded the Best Research Student Award at the University of Lagos in 2008, while another student under my supervision won the Best Paper Prize award at the 8th cidb (Construction Industry Development Board) PG Conference in 2014", she said.

SACPCMP Focus on Women in the Built Environment

Today, Prof. Windapo teaches and researches construction businesses and projects from a practice and performance perspective.

Her multiple achievements have resulted in even more opportunities to connect with the Construction Sector. She is regularly invited to review for international and local conferences and often serves on international and local scientific committees.

Working in the Industry

Prof. Windapo has been awarded (and to date completed) three cidb research contracts. She is also regularly invited as a plenary speaker at conferences, to examine research these locally and internationally, and undertake reviews for numerous academic journals. These include:

- The Journal of Construction Management & Economics;
- Journal of Financial Management of Property & Construction;
- Australasian Journal of Construction Economics & Building;
- Built Environment, Project & Asset Management Journal;
- International Journal of Construction Supply Chain Management;
- Journal of Construction in Developing Countries;
- African Journal of Business Management;
- Scientia Iranica, Elsevier;

“Coming to the University of Cape Town, and the global platform provided, was a life-changing experience for me.”



- Journal of Engineering Design & Technology;
- Journal of Building Performance;
- Journal of Construction Project Management & Innovation;
- Journal of Engineering Science & Technology; and
- Construction Research Journal.

But this success, did not happen overnight. Prof. Windapo traversed number of paths in her journey to this point. “Shortly after

graduating in Building from the University of Ife (Nigeria) in 1987, I joined Bouygues (Nig.) Limited, an international construction company based in Lagos as a Studies and Methods Engineer until 1996,” she said.

“Thereafter, I took up a full-time lecturer and senior lecturer position at the Lagos State Polytechnic until 1998 and the University of Lagos, until 2009. Subsequently, I joined the Department of Construction

SACPCMP Focus on Women in the Built Environment

Economics and Management, at the University of Cape Town as a Senior Lecturer and was promoted Ad hominem to the position of Professor in 2020. During my time with Bouygues, I studied towards a Master of Science Degree in

Construction Management, which I passed with distinction in 1990.

My research focus was on the

construction company and the dichotomy that existed between large international companies and their level of compliance with international standards, and the local companies who fail to comply with local standards, produce poor quality buildings and infrastructure, culminating in building collapse and fatalities.

Influences

My thinking was also influenced by the huge gap between the demand for, and supply of, affordable housing in Nigerian urban centres. I decided to undertake my Doctoral Degree on the issue of determinants of housing demand and supply in selected Nigerian cities specifically concentrating on affordability and the ability of the construction industry to meet this demand.

“My thinking was influenced by the huge gap between the demand for and supply of affordable housing in Nigerian urban centres.”

“I enjoy my career choice and would not want to change it. It provides a unique opportunity to impact lives and provide a pathway for the next generation into the construction industry and the provision of quality and affordable housing and livable cities for the marginalized in Africa.”

Prof. Windapo has met with challenges along the way, but has overcome these: “Prior to coming to the University of Cape Town, I was not able to conduct much research because of the limited research infrastructure in the

Nigerian context.

However, I was able to overcome this by coming to the University of Cape Town in 2009, where I have been able to establish myself as a researcher and lecturer in Construction Business and Project Management,” she said.

Looking to the Future

Despite having done so much, there is no slowing down for this dynamic woman. Going forward,

Prof. Windapo sees herself continuing as a professor and contributing to the development of the construction businesses and projects by undertaking more meaningful research

and sitting on the boards of NGOs, Government Agencies in charge of construction, and the United Nations.

Prof. Windapo’s Message to the Youth

“My message to aspiring youngsters who would like to pursue a career in the construction industry is based on the 3Ds – Diligence, Determination, and Discipline.

I will advise the youngsters to be **Diligent** – Careful and persistent work efforts (Have you seen a man diligent in his work, he will stand before kings and not mere men).

Determination – persevering towards a difficult goal despite obstacles. Determination occurs prior to goal attainment and serves to motivate behaviour that will help achieve one’s goal (not giving up).

Discipline – Obey rules and the code of conduct of the profession. Be ethical both in their studies and in practice.”

The 'health' in Health and Safety

Quick Q&A with Prof. Windapo

What do you like reading?

I love reading books of fiction, historical and spiritual books.

If you had a chance to meet anybody who would that be and why?

I would love to meet Chief Obafemi Awolowo (Nigeria) or Nelson Mandela, to



learn more from their life experiences, strategies, and vision to solve the problems of inequality, poverty, and homelessness in Africa.



What do you do in your spare time?

I like watching movies and reading my WhatsApp messages (which takes a lot of my time). I love travelling and meeting people.

What is family life like?

I am the last child and only girl in a family of four children (three elder brothers).

I have three grown children – Bayonle Olanrewaju Windapo (an Architect), Bolanle Olukemi Windapo (a Medical Doctor married to an Architect – Mr. Deolu Okesola) and Mobolaji Oladipupo Windapo (an Electrical Engineer).

Prof. Windapo's Summary of Achievements

- NRF C2 Rated Researcher
- 2021/2023 Distinguished International Associate – Royal Academy of Engineering
- Professional Construction Manager and Mentor, Registered with the South African Council for the Construction and Project Management Profession (SACPCMP)
- Produced 64 peer reviewed Journal articles, 229 peer reviewed articles published in Conference proceedings, 1 e-Book, 1 Monograph, 14 Book Chapters, 4 Course Readers, 6 Industry Research Reports
- Top Peer Reviewer on Publons. Reviewer for 29 High Impact Journals verified by Publons
- Member, NRF Thuthuka, FISS, Rated Researcher, DHET Research Output Evaluation Panel
- Established collaborative relationships with numerous local and international researchers (ARUA and Royal Academy of Engineering Projects)
- Winner 2019/2020 NSTF-South 32 Awards for Engineering Research Capacity Development Category and Finalist 2018/2019 NSTF-South 32 Awards for Eng. Research Capacity Dev.
- Awarded five prizes for best journal articles and conference papers
- Awarded research funds amounting to ZAR 8,191,200 by Industry agencies, NRF, Cape Higher Education Consortium (CHEC), URC, Block Grants and GBP 148,900 (Royal Academy of Engineering – 3 Awards)
- Team leader of the Construction Business and Management Research Group, UCT
- Editor of the Journal of Construction Business and Management (5th Year of Production)
- Taught 18 different courses at undergraduate and postgraduate level
- Visiting Lecturer, Nelson Mandela University (2012-2015 and 2019 to date); and Durban University of Technology
- Supervised 29 Groups of Honours, 54 Masters by Coursework, 4 MPhil, 1 MTech, and Supervised 8 Doctoral Students to Completion and Associate Supervisor of two others
- Currently supervising 5 PhD, 2 MPhil and 11 Master's by course work students
- External Examiner for 57 Masters Dissertation, 9 PhD Thesis and two Construction Management Programmes (NMMU and University of Nairobi)
- Deputy Dean Postgraduate Studies Faculty of Engineering and Built Environment, UCT 2021- Chair, Faculty Transformation Committee (2015-2017)
- Mentored 3 Construction Project Management Candidates to Professional Status and currently mentoring another 11.
- Developed and Facilitated 2 UCT Accredited CPD Courses

Events for your Diary

The CIOB has announced that it will present the CIOB Academic Summit on 14 September 2022. This is a unique conference dedicated to a global academic community.

The accessible virtual summit will lead the way to transform academics' connectivity on a global scale, leading the way for cross collaborations, sharing of cutting-edge research, knowledge, and education, and most importantly building of a strong sense of community.

Africa represents some of the highest quality and research-intensive universities in the world.

In April 2022, the QS World University Rankings by subject declared that African higher education institutions are steadily scaling the academic ladder as 23 university departments in three countries were among the world's 100 best places to study subjects they offer.

The South African higher education system remained at the top on the continent as its universities accounted for 55% of all the departments that were ranked. The universities with top ranking departments included,



University of Cape Town (UCT), University of the Witwatersrand (Wits), University of Pretoria and Makerere University.

It also appears that African universities are stepping forward to align their works, goals, and aspirations to the Sustainable Development Goals (SDGs) as articulated by the United Nations' Agenda 2030. Universities are seeking solutions for the world's most critical matters. Therefore, the CIOB wants to have universities from African countries represented at its Academic Summit in September 2022 because there is a lot to learn from these respected institutions.

The CIOB looks to bring together leaders and pioneers in built environment education on a global scale so that knowledge can be shared, confidence can be built and agility, innovation, and

inclusivity in academia can be demonstrated. The CIOB aims to produce opportunities for problem solving partnerships and open communications through this conference.

Visit the following link for the full details on how to register and submit your call to proposal:

<https://www.ciob.org/blog/academic-summit>

The event is the perfect place to join the conversation and help change the game of built environment education.

For more information, contact Ntando Teddy Khuzwayo, (the CIOB's Qualifications Liaison Manager) via NKhuzwayo@ciob.co.za or call: +27679120989

(Website: <https://www.ciob.org>)



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PROJECT MANAGERS



14 July 2022
13:00 – 16:00



33RD Construction Industry Conversation



YOUR HOST

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Adjunct Prof: Built Environment

BIM PART 2

DIGITALISING THE BUILT ENVIRONMENT FOR EFFECTIVE INFORMATION MANAGEMENT

Emerging Conversations and Paradigms

PROBLEM STATEMENT

Increasing demand for quality and timely infrastructure delivery underpinned by the need to provide value to stakeholders has brought critical challenges in the construction sector. Extant studies have revealed the intensity of the damage caused by the lack of an effective information management system to drive systems, workflows and processes in the built environment. Efforts are emerging from using digital information management as a platform to enhance infrastructure delivery and rethink how we construct, maintain, and sustainably sustain delivered infrastructure. The increasing use of information technologies has transformed the way things and activities are being undertaken in the construction industry. The material value in this technological-enhanced practice is that construction stakeholders can manage the construction process by simultaneously visualising the digitised assets while also making critical decisions vital to determining project success. The complicated task of information handling in modern project management demands constant decision making to update plans with continu-

ously renewed project information, communication and collaboration. The benefits derivable from using digital tools for processes include performance analysis, data management, production of sustainability information, visualisation, time and cost efficiency, data interoperability, and facilitating decision-making. Previous studies have identified the need for construction professionals to use the emerging technologies as a leverage to facilitate the implementation of productivity enabling practices in the built environment in the era of rapid urban developments. Therefore, this discussion brings critical issues for digitalising the built environment through conversations on emerging tools and technologies, strategic issues with policies, standards, organisational learning and roadmap for adoption. Furthermore, the economic case for digitalising the built sector and how to balance this with other critical adoption factors and the wider gains for the economy is discussed. This then raises the following questions;

QUESTIONS

- 1 Why should the built environment be digitalised and what are the emerging digital technologies able to optimise productivity and achieve value for stakeholders?
- 2 What is the current state of policy, expertise, supply chain and prospective adoption approaches to enable the implementation of a digital built South African Construction sector?
- 3 How can we balance the economic case to implement digital information management, policy requirements and critical adoption barriers for large and small construction organisations?
- 4 Beyond optimisation of infrastructure delivery, what are the wider socio-economic gains for investing in digitalising the built environment?

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Learning and Innovation go hand in hand. The arrogance of success is to think that what you did yesterday will be sufficient for tomorrow.

~ William Pollard



CONSTRUCTION IN 5D:

DECONSTRUCTION, DIGITALIZATION, DISRUPTION, DISASTER, DEVELOPMENT

There is little doubt that the construction industry has experienced exponential change and development in recent years. The 16th Built Environment Conference will examine five of these cutting-edge concepts to determine their state of the art in the construction sector both in practice and academic research. This conference therefore seeks responses to questions related to current conversations, debates and empirical research on:

DECONSTRUCTION

The dismantling or 'unbuilding' of buildings to maximise reusing and preserving the demolished fragments and involves taking a building apart piece by piece, essentially reversing the order of the construction.

DIGITIZATION

The conversion and transformation of construction business processes to use digital technologies and embrace the ability of digital technology to collect data, establish trends and make better business decisions.

DISRUPTION

Displacement of well established construction technologies, techniques or products to disruptively affect the normal operation or function of the construction Industry while potentially creating a new industry or market. Artificial intelligence, virtual/augmented reality, internet of things, blockchain technology, and a e-commerce are some of the disruptive technologies that are significantly influencing the future of the construction industry.

DISASTER

An occurrence that disrupts the normal conditions of existence and operation causing a level of suffering and challenge that exceeds the capacity of adjustment of the affected community and the construction industry.

DEVELOPMENT

In the context of construction refers to an industry that possesses the vision, leadership and capacity to bring about a positive transformation of itself within a condensed period of time.

Selected papers will be published as book chapters and indexed in Scopus

It is intended that these papers will contribute significantly to the existing body of knowledge relative to the science and practice of construction not only in South Africa but everywhere where the products of construction are produced even in these new challenging times of fear and uncertainty.

The conference invites papers within the context of its theme that address, inter alia, in both public and private sectors:

- Current trends and developments
- Innovation
- Opportunities and challenges
- Policies and procedures
- Legislation and regulations
- Practices
- Case studies

Papers will be reviewed according to:

- Relevance to the conference theme
- Objectives and outcomes of the conference
- Originality of the subject matter
- Rigor and robustness of empirical research
- Research design and methods

Full Paper Submission: 15 Jul '22

Notice of Acceptance: 6 Aug '22

Final Paper Submission: 30 Aug '22

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