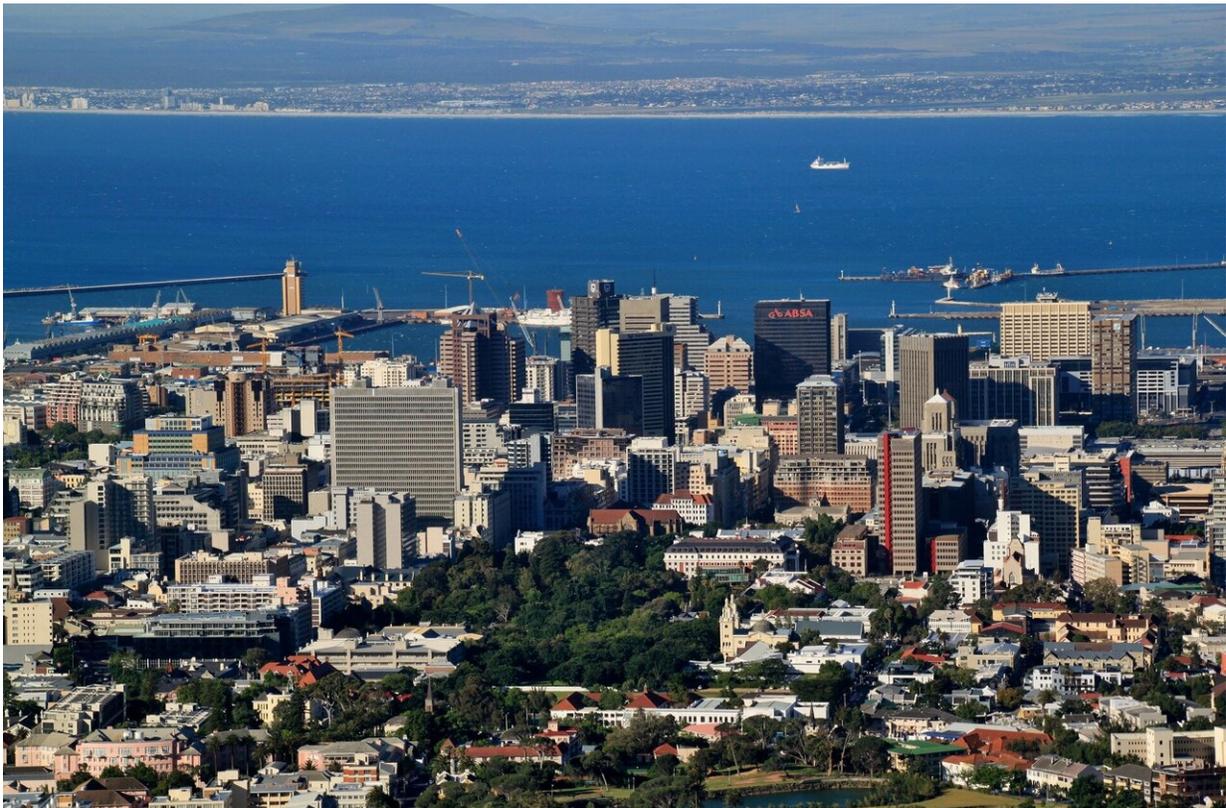


South Africa's construction industry could become safer. Here's how

August 13 2019, by Patrick Nwabueze Okonkwo



Credit: CC0 Public Domain

Construction is tough, sometimes dangerous work. Globally, the construction industry accounts for [about 7%](#) of employment. But it's responsible for between [30% and 40%](#) of all work-related fatalities. The

figure is at its highest in developing countries. This is because contractor organizations in those countries tend to lack a safety culture. Health and management systems are also less robust there than in developed nations.

This is obviously a huge problem. First, of course, there's the loss of human life. But there's an economic effect too. Accidents disrupt site activities. Projects can then run behind schedule, leading to cost overruns. This affects productivity and the industry's reputation as a whole.

In South Africa, the [construction](#) industry accounts for around [8%](#) of total formal employment and around [17%](#) of total informal employment. It is also the [third most dangerous](#) sector for workers after the transportation and fishing industries.

In a recent [study](#), I tried to find out why health and safety performance is not up to standard in South Africa's construction industry. I looked at how contractor organizations manage health and safety. I also compared the effectiveness of different management arrangements. This is important: there's no uniformity around health and safety management programs and practices within the construction industry.

What emerged was that health and safety management within the construction industry has not developed at the same pace as in other industries. Additionally, it hasn't kept up with technological advances like robotics, 3-D printing and data analytics. These innovative technologies have been well adopted by the automobile and manufacturing industries—and have reduced employees' exposure to dangerous tasks.

However, in a country beset by [high unemployment](#) and inequality, automation can be a sensitive subject.

Another problem I found is that legislation governing health and safety management in the construction industry focuses on individual projects. It doesn't place any obligation on contractors to implement health and safety management systems, nor to maintain these competencies within their organizations in the long-term.

Several problems

One of the issues I identified was how South Africa's medium and large contractor organizations manage their own health and safety systems. In some cases, they outsource this work to health and safety management consultants who provide advisory and administrative support. But such arrangements focus on legislative compliance. They don't do much to drive continuous improvement in the organization's health and safety performance.

In other instances, safety management happens internally through contractors' own organizational structures. This approach also has many problems. Companies just don't allocate enough resources for proactive health and safety management. Accountability mechanisms are few and far between. There aren't many incentives for employees to get involved in health and safety management activities. Health and safety training aren't a priority, either.

Some of the other issues I identified related to the business environment. These included the widespread practice of subcontracting and price-based competition. Both have a negative effect on the industry's safety performance.

There are critical deficiencies in the management of subcontractors. And the absence of a uniform basis for costing health and safety when tendering for a project means that contractors often under-budget for this crucial aspect of their work.

The country also doesn't have enough suitably qualified health and safety professionals who are registered with the [South African Council for Project and Construction Management Profession](#). This body is statutorily mandated to regulate the practice of health and safety professionals within the construction industry. I was told by several interviewees that there just aren't enough registered health and safety professionals for the number of ongoing construction projects.

So how can the country's construction industry become a safer place to work in?

Potential solutions

First, specific policies are needed that will improve health and safety leadership by top management, safety professionals and operational managers within contractor organizations. Policies like this should provide guidance on the minimal requirement for systematic health and safety management to be voluntarily adopted by contractors. The country could draw from the European Union's [framework directive](#) on occupational health and safety.

There should also be an industry-wide framework for pricing the cost of health and safety. Employer associations such as the [South African Federation of Civil Engineering Contractors](#) and the [Master Builders Association](#) should collaborate with industry regulators and clients' organizations to develop a framework for the just and efficient costing of health and safety management requirements in tender documents.

Subcontractor organizations should provide for the cost of health and safety management in their rates to principal contractors. They should also employ the services of a full-time health and safety management professional. Studies have found that several functions performed by such internal safety professionals promote [safety culture within](#)

[organizations](#).

Stakeholders like the Department of Labour, employer associations, labor unions, tertiary institutions and industry bodies will need to come together to address the lack of suitably qualified and registered health and safety professionals. These bodies can facilitate the necessary training and accreditation to meet the construction industry's needs.

organizations which regulate the construction industry and labor unions must also work to limit the number of precarious short-term employment contracts within the industry.

Effective interventions

There's also a lot of work to be done by principal contractors. These organizations need to introduce mechanisms that will manage their subcontractors' health and safety more efficiently.

Such mechanisms need to do two things. First, they must satisfy legislation mandated documentation and audits. Second, they must track and demand demonstrated improvements in health and safety performance.

Contractor organizations should also have an annual budget that funds proactive [health](#) and [safety](#) management interventions.

This article is republished from [The Conversation](#) under a Creative Commons license. Read the [original article](#).

Provided by The Conversation

Citation: South Africa's construction industry could become safer. Here's how (2019, August 13)
retrieved 19 September 2024 from

<https://phys.org/news/2019-08-south-africa-industry-safer.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.