



TWIMS

Future Manufacturing

TWIMS EXECUTIVE DEVELOPMENT PROGRAMME

Is your organisation ready for technology disruption?

Course Price: R12000 | Date: 18th - 20th August 2020

Course overview:

The Future of Manufacturing course focuses on applying a range of strategic tools to interrogate and engage with potentially highly disruptive market, social and technology forces that are re-framing the manufacturing sector's development trajectory. Over the course of the first two days we explore the rapid rise of the Internet of Things (IoT) and industrial IOT, and the use of "big data" that will have major disruptive consequences for manufacturing. We also analyse additive manufacturing, new material developments, and the rapid advancement of machine learning, artificial intelligence, and self-adapting robotics. We reflect on the consequences of these technology disruptions for markets and Global Value Chains; and how they are challenging the way manufacturing is organised. Are new business models likely to emerge? Is South African manufacturing closeted from these developments, or will changes occur domestically in the same manner as being observed internationally?

The first two days lead to a reflection and consolidation day, where syndicate teams prepare "board presentations" advocating for company resource deployment and associated responses to one of the technology disruptors unpacked. The application of learning is focused on, using a set of concrete opportunities and challenges based on the firms represented within the course. The course is completed with an interrogation of lessons from each of the presentations and further discussion on the consequences of the material covered.

Learning outcomes:

Participants will secure a greater understanding of potential manufacturing disruptions, and the ability to use a variety of strategic tools to respond to emerging technology opportunities and challenges.

Who should attend?

Senior manufacturing managers and executives, and public-sector executives with manufacturing portfolios. The course will be taught at a post-graduate level and so executives should preferably have a graduate-level qualification. Participants who successfully complete the course will earn a TWIMS Future Manufacturing course completion certificate.

Certification:

Participants who attend all 3 days of the course, and who successfully complete the assignment, will earn a TWIMS Future of Manufacturing certificate.



Course Framework:

Course	Key Focus Points
Day 1	<ul style="list-style-type: none">• Course introduction: Unpacking the spectrum of manufacturing technology disruptions
Day 2	<ul style="list-style-type: none">• Additive manufacturing, and advanced materials• New manufacturing business models, and methods of business organisation
Day 3	<ul style="list-style-type: none">• Board presentations covering the various technology disruptors• Learning consolidation: Defining appropriate strategic responses• Exploring social, ethical and sustainability consequences

Course facilitator



The course is facilitated by Prof. Justin Barnes, Associate Professor at the Gordon Institute of Business Science and TWIMS' Executive Director. Justin has worked in the South African manufacturing sector since 1995. All of his qualifications are from the University of Natal, with his BA Hons (Geography) completed cum laude in 1994, his MSocSci (Development Studies) completed cum laude in 1995 and his PhD (Development Studies – industrial specialisation), completed in 2001. Justin has developed strategies for numerous firms, and he has advised several national governments on their industrial and trade policies. Most recently he has been exploring the impact of digital technologies on the formulation of firm-level strategies and broader

Course cost:

The course costs R12,000 per participant. This is fully inclusive of all refreshments, teas, and lunches over the course of the three days, as well as stationery. The cost excludes accommodation.

Venue and accommodation:

The course is run at the TWIMS campus, 74 Everton Road, Kloof. Each day starts at 09:00 and concludes at 16:30. Accommodation is available on-site at an additional cost. Visit the TWIMS website (www.twimsafrica.com) for further details.

Covid-19 mitigation steps:

TWIMS follows strict protocols to mitigate the threat of Covid-19. We use an 80-seater auditorium for the class to ensure adequate social distancing is observed at all times; everyone on campus is temperature checked daily; all venues are sanitized daily; food and beverages are served individually; and the wearing of masks is strictly enforced while on campus.

Applications:

Participation is limited to a maximum of 25 executives. Application for participation can be made on-line at www.twimsafrica.com. TWIMS reserves the right to only accept applicants who are likely to benefit from the course and who can make a full contribution to group activities.



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