



TWIMS

Green Manufacturing

TWIMS EXECUTIVE DEVELOPMENT PROGRAMME

Are you ready for the green revolution?

TWIMS Campus, Kloof | Date: 13th - 16th April 2021

Course overview:

The Green Manufacturing Executive Short Course considers the pertinent issues surrounding the green economy debate and why they are critical to the manufacturing sector. Manufacturing is a key contributor to the world's environmental problems. The technologies it has deployed, the materials it uses, and the complex inbound and outbound value chains it has created all have significant global environmental impacts. The course focuses on the different green discourses potentially shaping the future development trajectory of manufacturing, while also providing an analysis of the key interventions and strategies that are relevant to green manufacturing.

Over the first two days of the course, we will critically reflect on what green manufacturing is and examining the extent to which it really matters. We will also examine the role that competing economic ideologies have in respect to green manufacturing and evaluate the current status quo in relation to global resource use. The concepts of the circular economy, green supply chains, and measuring true value will be applied in the context of positioning green manufacturing as a business model to be followed to achieve a competitive advantage. These core concepts will be reinforced by examining specific case studies. Emerging regulatory and legislative requirements are also focused on, as are new, evolving management philosophies relating to sustainable materials and energy use, product lifecycle management, and the ultimate green manufacturing objective: The establishment of carbon-neutral industrial activity. All these concepts will be synthesised into their implications for the South African manufacturing sector.

The first two days of the course lead to a reflection and consolidation day, where syndicate teams prepare simulated board presentations outlining a green innovation that can be implemented in a chosen value chain and its potential impact on an associated business model. The syndicate project, which builds over the first two days represents a core component of the elective. The application of learning is focused on, using a set of concrete opportunities and challenges based on the firms represented within the course. The third day will be concluded with a consolidation session. Feedback on individual syndicate presentations will be provided and a discussion of the immediate and long-term relevance of green manufacturing completed. On the fourth day, a site visit will take place to a leading green manufacturer.

Learning outcomes:

Participants will secure a substantially deeper understanding of the Green Manufacturing challenge, and the use of a variety of strategic tools to proactively respond to emerging 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. Course participants who successfully complete the syndicate project will earn a TWIMS Future Manufacturing course completion certificate.



Course Framework:

Course	Key Focus Points
Day 1	<ul style="list-style-type: none">• Course introduction, the setting of course context• Status on current global resource use and global risks to manufacturing• Considering the extent to which South African manufacturing is green• Understanding circular economy principles• Unpacking closed-loop production systems and Industrial Symbiosis
Day 2	<ul style="list-style-type: none">• Analysing some of the major green disruptions reframing global manufacturing• Understanding shared value as a new business model approach• Case study of clean energy supply as a competitive advantage• Exploring the impact of global and local environmental legislation on manufacturing supply chain models• Evaluating the strategic and operational merits of different green supply chain options
Day 3	<ul style="list-style-type: none">• Board presentations covering various green innovations• Learning consolidation: Defining appropriate strategic responses
Day 4	<ul style="list-style-type: none">• Site Visit to Leading Green Manufacturer: Green Manufacturing in Practice

Course facilitator

The course is facilitated by Liesel Kassier, the Metair Head of Green Manufacturing at TWIMS. Liesel has worked in the Green sector for the past 12 years. She has a Development Finance Masters (Suma Cum Laude) completed in 2019 from the Frankfurt School of Finance and Management and a BCom Honours (Economics) completed cum laude from UKZN. Liesel is currently undertaking her Ph.D. in developing a resilience indicator for organisations by examining the resource use, value, and efficiency nexus. Prior to joining TWIMS Liesel worked at the Council of Scientific & Industrial Research (CSIR) where she worked on a range of green projects. Liesel has also worked in the provincial government as a Green Economy specialist.



Certification:

Participants who attend all 4 days of the course, and who successfully complete the assignment, will earn a TWIMS Green Manufacturing certificate.

Course Cost:

The course costs R20 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.

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 valuable contribution to group activities.

Venue and accomodation

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:

The TWIMS campus follows strict protocols to mitigate the threat of Covid-19. We use an 80-seater auditorium for the class of 25 students to ensure adequate social distancing is observed at all times; all staff and visitors to the campus are temperature checked daily; all venues are sanitized daily, with hands-free sanitizing stations available throughout the main teaching area; food and beverages are served individually, and the wearing of masks is strictly enforced while on campus.

