Implementing Digital Transformation for Sustainability Training Course



07 - 11 Dec 2026

Cape town

4600 € (Per Person)

Ref: #SUS1058_253128

Course Introduction / Overview:

This training course is designed to equip professionals with the strategic insights and practical skills needed to lead a digital transformation for sustainability. In a world where environmental and social pressures are mounting, technology offers powerful new ways to drive positive change. This program, offered by BIG BEN Training Center, provides a framework for integrating digital technologies, such as IoT, AI, and big data, with an organization's sustainability goals. We will explore how these tools can be used to optimize resource consumption, improve supply chain transparency, and enable a circular economy. The curriculum is informed by the work of academics like Andrew McAfee and Erik Brynjolfsson, whose research in books like The Second Machine Age highlights the profound impact of digital technology on business and society. The course goes beyond buzzwords to provide a clear, actionable roadmap for using digital transformation as a catalyst for sustainable development. We prepare participants to build a business case for these initiatives, lead cross-functional teams, and measure the dual benefits of efficiency and environmental impact.

Target Audience / This training course is suitable for:

- Sustainability managers and officers.
- IT and technology strategists.
- Operations and supply chain managers.
- Corporate social responsibility (CSR) professionals.
- Business leaders and executives.
- Project managers.
- Product and service designers.
- Government agencies and equivalents.

Target Sectors and Industries:

- Manufacturing and industry.
- Technology and software.
- Retail and consumer goods.
- Energy and utilities.
- Logistics and transportation.
- Agriculture and food systems.
- Government and public administration agencies.
- Finance.

Target Organizations Departments:

- Sustainability and corporate social responsibility (CSR).
- Information technology (IT).
- Operations and supply chain.
- Research and development (R&D).
- Strategic planning.
- Finance and investment.
- Marketing.
- Product design.

Course Offerings:

By the end of this course, the participants will have able to:

- Formulate a digital transformation strategy for sustainability.
- Identify and evaluate relevant digital technologies for environmental goals.
- Use data analytics to measure and optimize resource consumption.
- Improve supply chain transparency and traceability.
- Design products and business models for a circular economy.
- Build a business case for sustainability-focused tech investments.
- Lead and manage digital transformation projects.
- Communicate the value of these initiatives to stakeholders.

Course Methodology:

This training course uses a project-based and case-study driven methodology. The program is built on real-world examples of companies that have successfully used digital transformation to achieve sustainability goals. Participants will work in teams to develop a digital sustainability roadmap for a hypothetical organization, applying the tools and frameworks learned in the course. The curriculum includes workshops where participants will practice using digital tools, like data analytics dashboards, to solve simulated environmental problems. We will use interactive discussions to explore the challenges and opportunities of technology implementation, from data security to stakeholder buy-in. BIG BEN Training Center is committed to providing a dynamic and practical learning environment, ensuring that participants leave with the skills and confidence to lead digital transformation for sustainability within their organizations.

Course Agenda (Course Units):

Unit One: Foundations of Digital Sustainability

- The intersection of digital transformation and sustainability.
- Key drivers and trends.
- Understanding the business case.
- The role of data and technology.
- Defining a digital sustainability strategy.
- Ethical considerations of digital technologies.
- Case studies of successful digital sustainability.

Unit Two: Technology for Resource Optimization

- Internet of Things (IoT) for environmental monitoring.
- Smart grids and energy management systems.
- AI and machine learning for predictive maintenance.
- Digital twins for operational efficiency.
- Optimizing water and waste management.
- Case studies in smart factories and buildings.
- Data analytics for sustainability reporting.

Unit Three: Supply Chain and Circular Economy

- Digital platforms for supply chain transparency.
- Blockchain for traceability.
- E-commerce and sustainable logistics.
- Digital product passports and circular economy.
- Designing products for disassembly.
- Service-based business models.
- The role of technology in waste reduction.

Unit Four: Implementation and Project Management

- Developing a digital sustainability roadmap.
- Project management for digital initiatives.
- Building a cross-functional team.
- Stakeholder engagement and change management.
- Measuring return on investment (ROI).
- Risk management and cybersecurity.
- Scaling up pilot projects.

Unit Five: The Future of Digital Sustainability

- Emerging technologies and trends.
- The role of big data and AI in climate models.
- Designing sustainable digital products and services.
- Digital inclusion and social equity.
- Career pathways in digital sustainability.
- Case studies in innovative business models.
- Personal leadership in driving change.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How can digital transformation not only reduce an organization's environmental footprint but also fundamentally change its business model to create long-term shared value?

What unique qualities does this course offer compared to other courses?

This training course is unique because it provides a focused, integrated approach at the intersection of digital technology and sustainability. While many courses discuss digital transformation in general or sustainability in isolation, our program is designed to show how these two forces can be combined to create powerful, positive change. The curriculum is a hands-on experience, with exercises that directly simulate real-world challenges in this field. We go beyond the basics to address the strategic and leadership aspects of these initiatives, helping participants build a compelling business case and lead their organizations into a more sustainable future. This course is for professionals who want to leverage technology to drive both operational efficiency and environmental responsibility.