



# unitar

United Nations Institute for Training and Research

## Unitar Online Catalogue

### CIFAL Singapore - Digital Sustainability: Development Trends and Implications for the Healthcare Industry



📅 : 7 1📅 2025

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|----------|-------------------------------------------------------------------------------------------------------------|
| 📅 :      | Workshop                                                                                                    |
| 📍 :      | Singapore, Singapore                                                                                        |
| 📅 :      | 25 3📅 2025 to 13 5📅 2025                                                                                    |
| 📅 :      | 1 Days                                                                                                      |
| 📄 :      | Decentralize Cooperation Programme                                                                          |
| 📄 :      | <a href="https://www.chi.sg/chi-sustainability-academy/">https://www.chi.sg/chi-sustainability-academy/</a> |
| 💰 :      | US\$1,169.00                                                                                                |
| 📧 email: | CHI_Academies@nhg.com.sg                                                                                    |
| 📍 :      | CIFAL Singapore, Centre for Healthcare Innovation                                                           |



Digital sustainability in the healthcare industry is an emerging area of focus both by policy makers as well as professionals in the industry. The “twin-transformation” concept that digital solutions can drive sustainability transformation, and at the same time that the deployment of digital

transformation must be based on sustainable principles are crucial for several interconnected reasons, each contributing to a resilient, efficient, and ethical healthcare system: Environmental impact reductions and mitigation, Economic benefits, Social responsibilities, Data management and security, Enhanced patient outcomes, Innovation and leadership.

Digital sustainability in healthcare therefore merges environmental stewardship with operational excellence, ensuring the industry can meet present needs without compromising future generations. It fosters a system that is environmentally responsible, economically viable, socially equitable, and resilient, ultimately enhancing global health outcomes.

It is therefore important to foster and promote the integration of digital sustainability principles, decisions and actions into all aspects of healthcare services and industry in Singapore. This course aims to provide an introduction to the key concepts and decision framework both for leaders, business unit managers as well as the professionals within the healthcare system.



- 1.Understand the principles of digital sustainability and their relevance to healthcare industry.
- 2.Identify strategies to reduce carbon footprints through digital innovation and green procurement.
- 3.Learn the framework mapping for implementing sustainable digital practices in healthcare operations.



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## **Session 1 Background and Overview of Digital Sustainability Roadmap**

1. Overview and Key Concepts
2. The concept of digital sustainability for enterprises.
3. Background of key relevant sustainability concepts.
4. Case Study: Carbon footprint of Singapore's healthcare sector.
  
2. Digitalization for Sustainability
3. Digitalization as accelerator, integrator and value creator for sustainability.
4. Selected examples of digital technologies that drive sustainability in healthcare services.
5. Selected issues of carbon accounting methods for the healthcare sector with focus discussion on the concept of digital sustainability.
6. Green Procurement: decarbonizing the supply chain in the perspective of digital sustainability.
7. Selected Case Study: international and local best practices examples.
  
3. Sustainable Digitalization
4. The growing environmental impacts of digital technologies.
5. Case Study: Environmental impacts of data center and artificial intelligence.

## **Session 2 Digital Sustainability Framework for Healthcare Organizations**

1. The Digital Sustainability Framework DSF
2. Establishing a Digital Sustainability Framework for Healthcare Services: Basic Principles.
3. The 4 Layers of Digital Sustainability Framework (DSF).
4. Components of the Digital Sustainability Framework DSF
5. Visions and Objectives Setting
6. Leadership and Ownership
7. ESG Targets and Use Cases Selection
8. ICT Building Blocks for Digital Sustainability
9. Benefit Assessment
10. Implementation

## 11. Case Study: Digital Sustainability Actions in a Healthcare Organization

Group Activities: Strategy and Framework Development



- Lectures
- Case Studies
- Group activities and presentations



Healthcare professionals accompanied by projects seeking to reduce carbon footprints within the healthcare sector