#EVERYWORKERMATTERS

ntuc National Trades Union Congress

KEY TRENDS SUSTAINABILITY

ELECTRONICS & SEMI-CONDUCTORS	MARINE & OFFSHORE ENGINEERING	PRECISION & INDUSTRIAL ENGINEERING
Implementation of Efficient Abatement Systems & Energy-Efficient Systems Adoption of Chillers & Cooling Towers	**Maritime Decarbonization & Offshore Renewables** Transition to Low-Carbon Fuels & Clean-Energy Options, Carbon-Capture Systems, Offshore Wind	**Emissions Reduction** Supply & Value Chain Carbon Footprint Management

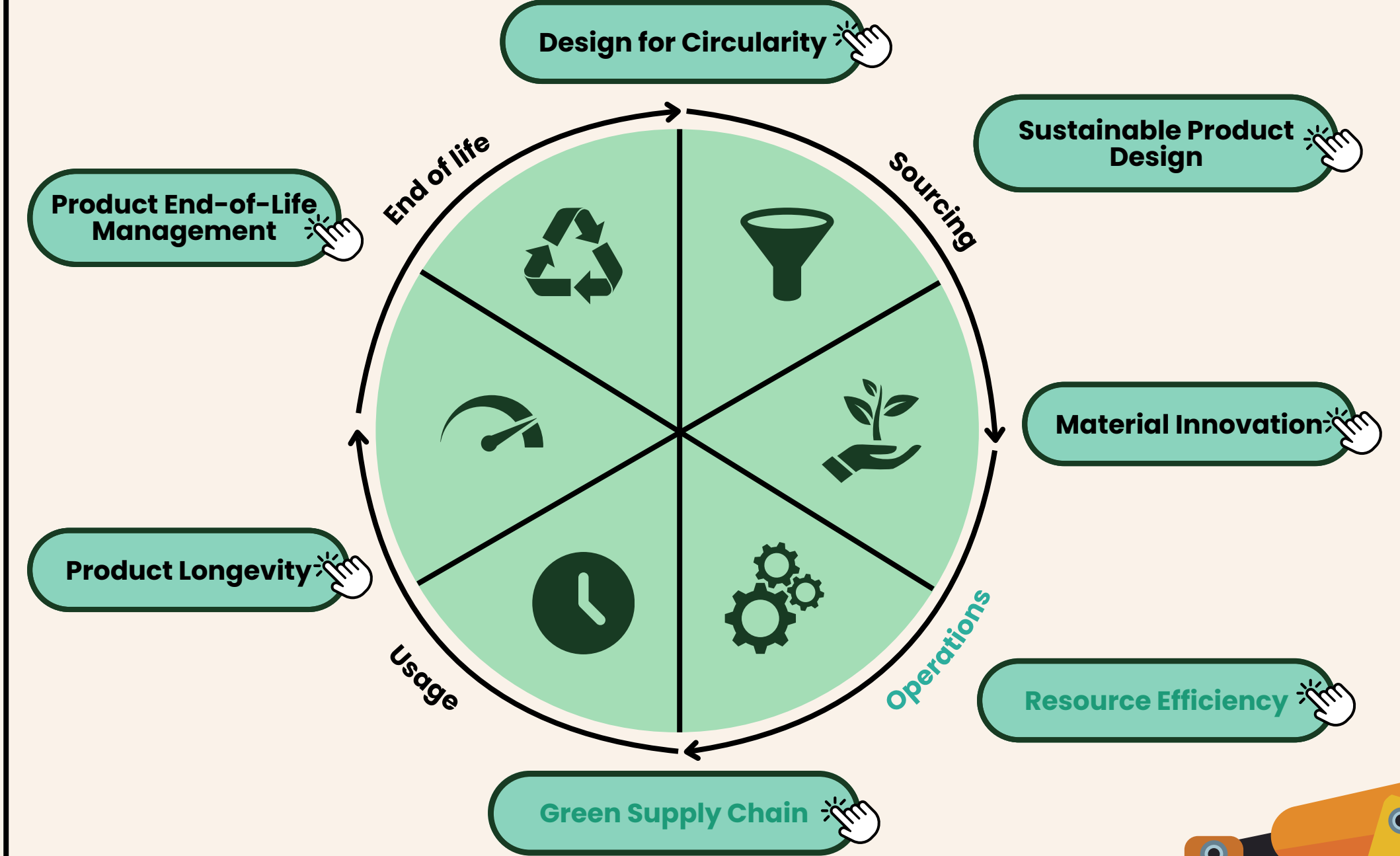## HOW IS MY COMPANY PERFORMING FOR SUSTAINABILITY?

Operations (Green Supply Chain & Resource Efficiency) is often a key focus, in part due to regulations (Scope 1, 2, 3 Reporting)

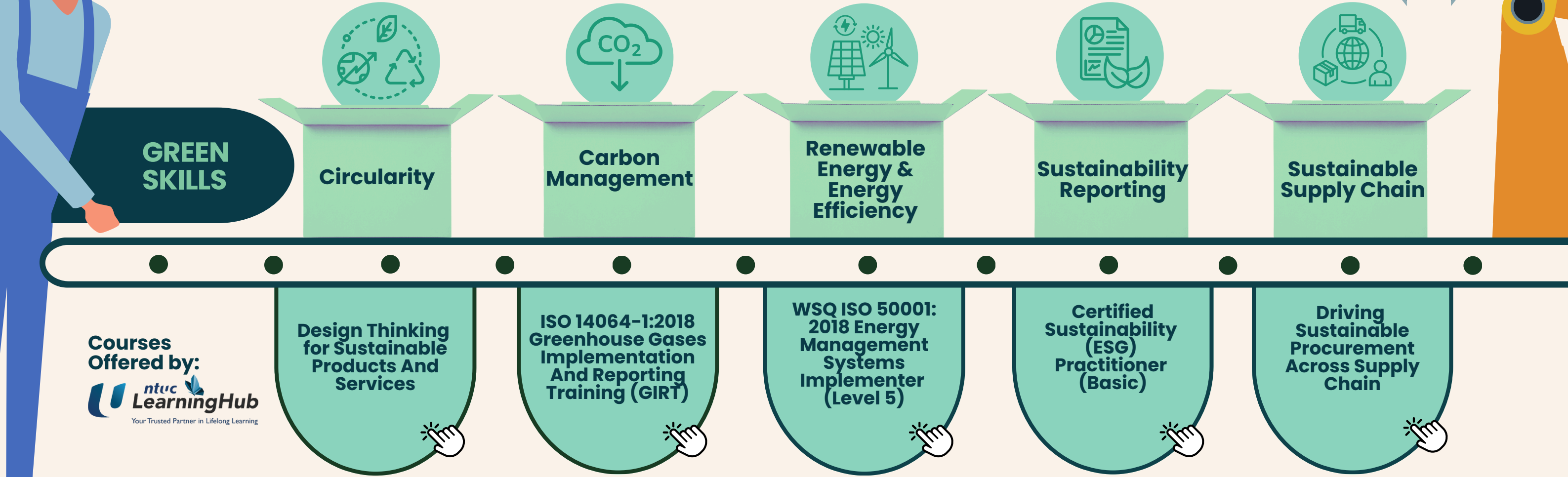### NTUC-Grant Thornton ESG Diagnostic Assessment

WHAT ARE THE JOB FUNCTIONS AFFECTED?

- Workplace Environment, Health & Safety (WEHS)
- Research & Experimentation (R&E)
- Production & Processing
- Logistics & Procurement
- Finance & Accounting
- Sales & Customer Service
- Facility / Yard Management

BUILDING UP MANUFACTURING SUSTAINABILITY PRODUCT LIFECYCLE (PLC) MANAGEMENT

- Design for Circularity
- Sustainable Product Design
- Product End-of-Life Management
- Material Innovation
- Product Longevity
- Resource Efficiency
- Green Supply Chain

Circle labels: End of life, Sourcing, Operations, Usage

WORKFORCE TRAINING & UPSKILLING REQUIRED

For Electronics & Semiconductor Companies:
SSIA — Singapore Semiconductor Industry Association

For Marine & Offshore Companies:
Marine Decarbonisation Champion Workshops
ASMI — Association of Singapore Marine and Offshore Energy Industries

For Engineering Companies:
THE INSTITUTION OF ENGINEERS, SINGAPORE

GREEN SKILLS

Circularity	Carbon Management	Renewable Energy & Energy Efficiency	Sustainability Reporting	Sustainable Supply Chain
Design Thinking for Sustainable Products And Services	ISO 14064-1:2018 Greenhouse Gases Implementation And Reporting Training (GIRT)	WSQ ISO 50001: 2018 Energy Management Systems Implementer (Level 5)	Certified Sustainability (ESG) Practitioner (Basic)	Driving Sustainable Procurement Across Supply Chain

Courses Offered by:
ntuc LearningHub — Your Trusted Partner in Lifelong Learning

TAPPING INTO THE SUSTAINABLE ENTERPRISE AUTOMATION TRANSFORMATION (SEAT) ROADMAP

- Operation Technology Roadmap (OTR)
- OMNI Methodology for Process Excellence
- AHK i4.0 Industry Specialist Programme
- Proof of Concept (POC) Programme
- Company Training Committee (CTC) Grant

Providing Integrated, Holistic Support For Companies & Workers in the Electronics, Marine & Engineering (EME) Cluster