



Construction Project GreenCard (CPG™) Accredited Professional Training (N120,000)

Brochure (ADVANCED CERTIFICATION OPTION)

GREENCARD CERTIFICATION INTERNATIONAL
CPD – 35 POINTS

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1. Company Introduction

GreenCard Certification International is a leading sustainability certification, technical advisory, and learning platform focused on advancing high performance practices across the natural and built environment. Through its professional training and certification ecosystem, GreenCard Certification International equips individuals and organizations with the practical knowledge, implementation tools, and applied competencies required to deliver measurable sustainability outcomes.

The Construction Project GreenCard (CPG™) Certification framework verify and reward environmentally responsible, resource efficient, climate responsive, and socially inclusive construction practices. It is designed to align with international best practice while remaining fully responsive to local context, implementation realities, regulatory environments, and market conditions. Through a practical and operational learning approach, participants gain the knowledge required not only to understand the framework, but also to apply it effectively within real project environments.

The Construction Project GreenCard (CPG™) Accredited Professional Training has been designed to build a strong network of qualified professionals capable of supporting project teams from early design through certification review, performance verification, and final award.

2. Training Program Description

Course Name: Construction Project GreenCard (CPG™) Accredited Professional Training

This professional training has been structured to provide participants with the technical, procedural, and application based knowledge required to support projects seeking CPG™ certification. The course equips learners with a strong understanding of the CPG™ certification pathway, technical criteria, supporting documentation requirements, scoring methodology, and use of the certification application and rating tool.

The program is designed for professionals who need to understand how sustainable construction principles are translated into measurable project requirements across the full building lifecycle. Participants will learn how to interpret credits, advice teams on compliance pathways, review evidence, support documentation readiness, and guide projects toward Bronze, Silver, or Gold certification outcomes.

The Construction Project GreenCard CPG™ framework is structured around seven major sustainability categories totaling 300 points:



► 2.1 Course Development

This course has been developed to reflect the structure, technical logic, and implementation pathway of the Construction Project GreenCard certification system. It is designed by professionals with expertise in sustainable construction, building performance, project delivery, environmental management, lifecycle thinking, and certification systems.

The training is mapped to practical areas within the CPG™ framework including:

1. Environmental impact and site assessment
2. Energy performance and passive design
3. Water efficiency and management systems
4. Climate resilience and innovation
5. Indoor environmental quality and technical performance
6. Eco friendly materials and embodied carbon
7. Social inclusion, stakeholder value, and community impact
8. Digital submission workflow through the certification application and rating tool

► 2.2 Prerequisites for this Course:

- There are no age or formal entry requirements for this training. However, it is recommended that participants have a basic understanding of construction, sustainability, engineering, architecture, project management, environmental management, or building operations..

3. Training Delivery Options

• In Person at Approved Training Venue

Participants can attend immersive, instructor led training sessions delivered at approved GreenCard venues or partner institutions. This format supports live engagement, peer learning, technical discussion, and guided case based application.

• Hybrid/Virtual Mode

For maximum flexibility, the Construction Project GreenCard (CPG™) Accredited Professional Training is also available in hybrid/virtual format. This option allows participants to join from any location while still benefiting from live instructor interaction, guided platform walkthroughs, technical examples, and structured digital learning resources.

4. Program format

This program will be delivered in an interactive and practical format, supported by knowledge check questions and formal assessment. The course combines technical instruction with applied



construction examples, project lifecycle scenarios, evidence review exercises, and guided walkthroughs of the CPG™ Certification Application and Rating Tool.

Theory will be supported through real world examples that reflect the operational realities of design development, construction implementation, commissioning, handover, and in use performance management. The strong differentiator of this training is that it is not limited to sustainability theory. It is built to develop professionals who can function effectively within a live certification process, advice project teams, and support evidence based project submissions.

5. Program Timeline Options

1. 5 - 12 Hours Tutor-Led Training + 3 Days Self-paced Training (+35 CPD Point)

- Intensive format, completed in one week + One week window for completing exam
- Ideal for participants looking for an immersive, fast-paced experience
- Ideal for participants who prefer flexibility and time to apply concepts between sessions.

6. Course Syllabus

Module 1: Introduction to Construction Project GreenCard Certification
Overview of the GreenCard Certification System
1.1 Introduction to GreenCard Certification System
1.2 Purpose and value proposition of Construction Project GreenCard certification
1.3 Sustainable construction in the African and emerging market context
1.4 The role of performance based certification in market transformation
Structure of the CPG™ Framework
1.5 Overview of the seven sustainability categories
1.6 Understanding the 300 point rating structure
1.7 Bronze, Silver, and Gold certification thresholds
1.8 Lifecycle approach to project assessment
Certification Process and Governance
1.9 Design certification and final certification pathway
1.10 Role of project teams, CPG™ Accredited Professionals, auditors, and certification body
1.11 Evidence based verification and quality assurance principles
Module 2: CPG™ Certification Application and Rating Tool
Introduction to the Digital Certification Workflow
2.1 Structure of the certification application
2.2 Project registration and project information requirements
2.3 Understanding stage based assessment workflow



2.4 Backend scoring logic and preliminary rating outputs
Submission Management and Evidence Handling
2.13 Upload protocols and file management
2.14 Linking evidence to questions and criteria
2.15 Managing missing documents and weak evidence
2.16 Common application errors and submission quality controls
Module 3: Environmental Criteria and Site Sustainability
Environmental Foundations
3.1 Brownfield redevelopment and land use efficiency
3.2 Environmental Impact Assessment and supporting evidence
3.3 Biodiversity impact assessment and ecological planning
3.4 Alignment with local climate action goals
Environmental Risk and Construction Controls
3.5 Climate and environmental risk assessment at site selection stage
3.6 Construction Environmental Management Plan
3.7 Waste diversion from landfill and construction waste strategy
3.8 Monitoring emissions from construction equipment
3.9 Use of lower emission construction vehicles and equipment
Environmental Enhancement Measures
3.10 Green roofs, reflective roofs, and landscape buffering
3.11 Flood mitigation and environmentally responsive site planning
3.12 Biodiversity enhancement through landscaping and habitat measures
Module 4: Energy Savings and Building Performance Strategy
Passive Design and Energy Fundamentals
4.1 Passive design strategies for sustainable construction
4.2 Daylight and ventilation analysis
4.3 Solar orientation, shading, and massing optimization
4.4 High performance building envelope fundamentals
4.5 Minimizing thermal bridges in design
Energy Systems and Technical Inputs
4.6 Renewable energy integration and system selection
4.7 Smart HVAC and lighting systems
4.8 Onsite battery storage considerations
4.9 Building energy demand and baseline comparison
4.10 Energy reduction modelling principles
Performance Simulation and Documentation
4.11 Building performance simulation
4.12 U value, lighting power density, and HVAC efficiency metrics
4.13 Commissioning plans and controls for lighting/HVAC zoning
4.14 Smart metering, monitoring, and evidence submission for energy criteria



Module 5: Water Efficiency and Water Management
Water Strategy at Brief and Design Stages
5.1 Setting measurable water performance goals
5.2 Integrating water targets into the design brief
5.3 Water demand forecasting and occupancy based planning
5.4 Water use intensity metrics and baseline reduction logic
Water Efficient Systems and Technologies
5.5 Plumbing specifications for water saving fixtures
5.6 Greywater reuse systems
5.7 Rainwater harvesting systems
5.8 Smart water metering and control systems
Water Calculations and Evidence Requirements
5.9 Total estimated water demand
5.10 Water use per occupant per day
5.11 Estimated water savings versus baseline
5.12 Water schedules, calculations, and technical submission requirements
Module 6: Eco Friendly Materials and Embodied Carbon
Sustainable Material Selection Principles
6.1 Understanding eco friendly materials within the construction value chain
6.2 Local sourcing strategy and regional value optimization
6.3 Low VOC and non toxic materials
6.4 Fire safety and low hazard material specifications
Circularity and Material Recovery
6.5 Circular economy principles in project design
6.6 End of life material recovery goals
6.7 Sustainable materials tracking systems on site
6.8 Recycled content and material efficiency strategy
Embodied Carbon and Material Performance
6.9 Embodied carbon assessment principles
6.10 Carbon reduction strategies in design and specification
6.11 Product data sheets, material schedules, and supplier documentation
6.12 Material evidence packaging for certification review
Module 7: Socio Economic Value, Accessibility, and Stakeholder Engagement
Socio Economic Intent of CPG™
7.1 Social inclusion within sustainable construction
7.2 Prioritization of local labour and economic participation
7.3 Public space integration and social value creation
7.4 Accessibility for differently abled persons
Stakeholder Engagement and Community Interface
7.5 Stakeholder consultation planning and execution
7.6 Engagement records, reports, and proof of consultation



7.7 Supporting local social development objectives
7.8 Managing social impact evidence within certification submissions
Occupant and User Focused Delivery
7.9 Occupant training and sustainability awareness
7.10 User centered operational transition at project handover
7.11 Engagement strategy for long term building performance
Module 8: Climate Resilience and Innovation
Climate Resilience in Project Delivery
8.1 Resilience to extreme weather events
8.2 Flood risk mitigation measures
8.3 Heatwave resistance in building envelope design
8.4 Climate adaptation thinking across project stages
Innovation within the CPG™ Framework
8.5 Innovative materials and construction methods
8.6 Circular economy pilots and innovation opportunities
8.7 AI in building management and digital optimization
8.8 Innovation as a value creation lever in certification strategy
Evidence and Strategic Positioning
8.9 Climate strategy documentation
8.10 Innovation documentation and proof requirements
8.11 Positioning resilience and innovation for higher certification outcomes
Module 9: Technical and Performance Verification
Technical Design Quality and Building Readiness
9.1 Commissioning plans and quality control
9.2 Testing, adjusting, and balancing fundamentals
9.3 Acoustic and sound insulation measures
9.4 O and M manuals and operational handover documentation
Indoor Environmental Quality and Performance Monitoring
9.5 Indoor air quality measurement and interpretation
9.6 CO2 monitoring integration
9.7 Ventilation rate and air change rate fundamentals
9.8 Occupant comfort and building performance data
Handover and In Use Performance
9.9 Post occupancy evaluation planning
9.10 Monitoring sustainability performance targets
9.11 Renewable energy generation tracking
9.12 Uploading performance and metering data
9.13 Sustainability goals achieved at completion
10 Module 10: Submission Strategy, Audit Readiness, and Professional Practice



Role of the CPG™ Accredited Professional
10.1 Professional scope and responsibilities
10.2 Working with developers, consultants, contractors, and auditors
10.3 Managing timelines, evidence flow, and submission readiness
10.4 Supporting projects from early stage planning to final certification
Audit Readiness and Quality Assurance
10.5 Conducting pre submission reviews
10.6 Identifying documentation gaps and score risks
10.7 Common nonconformities and corrective action strategy
10.8 Clarification management during review process
Ethics and Professional Integrity
10.9 Evidence authenticity and responsible professional judgment
10.10 Avoiding overstated claims and weak submissions
10.11 Maintaining credibility within a verification based certification system

7. Expected Participants Profile/Background

This course is suitable for professionals involved in sustainable construction, project development, technical design, environmental performance, building operations, and certification support. If possible, groups should be composed to encourage multidisciplinary learning and stronger collaboration across the project value chain.

This course is primarily aimed at:

- Architects
- Civil Engineers
- Structural Engineers
- Mechanical Engineers
- Electrical Engineers
- Builders and Construction Managers
- Quantity Surveyors
- Project Managers
- Sustainability Consultants
- Environmental Managers
- Facility Managers
- Urban and Regional Planners
- Developers and Asset Owners
- Government and Public Sector Infrastructure Officers
- Building Services Professionals
- Academics and Researchers in the Built Environment
- Aspiring Sustainable Construction Professionals



8. Professional Examination



Online examination comprising 60 multiple choice questions on all course material.

The examination is designed to test participants' understanding of the Construction Project GreenCard (CPG™) framework, technical criteria, certification workflow, digital submission logic, and practical interpretation of sustainability requirements across the project lifecycle.

A 70% passing grade in the examination qualifies participants for recognition under the Construction Project GreenCard (CPG™) Accredited Professional pathway, subject to GreenCard Certification International requirements.