

Unit	Key modules	Addition materials	Key topics	Learning objectives	CPD Hours
Unit One: An introduction to Sustainability	<ul style="list-style-type: none"> • Six Modules 	<ul style="list-style-type: none"> • One case study • One eco-priority setting module • Five eco-priority setting readings • Three eco-rating readings 	<ul style="list-style-type: none"> • Introduction to sustainability • Greenwash and the response to minimise it • Sustainable benefits: products and projects • A guide to eco-rating • How to use Ecospecifier • Building codes and standards: for environmental impact 	<ul style="list-style-type: none"> • Understand the definition of Sustainability • Understand the political processes on achieving emissions reductions • Identify the influence the construction and materials sector has on global sustainability • Identify the environmental effects the materials sector plays at a local level • Define industrial ecology • Understand restorative sustainability and the tools to achieve it • Understand the meaning of Greenwash. • Explore the national and international commercial and residential measures to scrutinise Greenwash • Learn the definition of a sustainable product • Understand the sequent considerations of a products sustainability • Identify approaches to dematerialisation • Identify approaches to minimising of impacts of a product • Learn the meaning of an ecological rucksack • Identify the ESD Priorities, according to Ecospecifier • Identify the key Eco-Priorities of different Building Elements • Identify and give reason to the change in Eco-Priorities with change of materials • Examine different manufacturing approaches to delivery sustainable products • Describe the varying Eco-Priorities and/or key environmental considerations of the products shown • Define a sustainable material in a Green Building context • Identify appropriate sustainable materials • Understand risks involved in building and materials and prioritise them • Examine possible priorities for sustainability in South Africa • Define the five principles of restorative sustainability • Describe the sustainability characteristics of 7 key building elements for residential and commercial projects • Understand the embodied energy of these six elements • Connect sustainable materials to case studies 	<ul style="list-style-type: none"> • 20 hours <p style="text-align: center; color: red;">Pending Approval as at June 2, 2016</p>
Unit Two: The Greenstar Suite of tools and Green Tag South Africa	<ul style="list-style-type: none"> • Three Modules 	<ul style="list-style-type: none"> • One case study • One eco-priority setting module • Five eco-priority setting readings 	<ul style="list-style-type: none"> • Sustainable products & Greenstar • Greenstar building rating • Greenstar product selection 	<ul style="list-style-type: none"> • Examine sustainability rating tools • Describe commercial sustainability drivers • Understand the market sectors relevant to the tools • Understand how energy assessments and weightings are applied to Green Star • Describe Green Star tools and their different rating systems • Document benefits in an Global context • Explore Green Star tool development in South Africa • Explain the optimum Green Building design process • Understand where sustainable materials fit in Green Buildings and key rating scheme • Manage risks associated with Green Building • Understand where sustainable materials fit in Green Buildings and key rating scheme • Link relevant Green Star Credits to Product outcomes • Describe the sourcing of leading edge ecological sustainable materials • Understand the relationship between Life Cycle Assessment and Life Cycle Inventory • Understand the integration of different sustainable materials and building techniques • Observe the application of sustainable materials 	<ul style="list-style-type: none"> • 19 hours <p style="text-align: center; color: red;">Pending Approval as at June 2, 2016</p>

<p>Unit Three:</p> <p>Project management for sustainable projects</p>	<ul style="list-style-type: none"> • Four Modules 	<ul style="list-style-type: none"> • One case study • One eco-priority setting module • Six eco-priority setting readings • One course reading 	<ul style="list-style-type: none"> • Selecting the right design team • The Integrative sustainable Design Process (IPD) • Contracts for green procurement • Greening the tender process 	<ul style="list-style-type: none"> • Describe the benefits of energy efficient products • Learn the components to an optimal design team • Understand the influence of each component on team performance • Understand the influence of each component on the Integrated Design Process • Learn current and transitional definitions of Green Design • Examine the difference between conventional and Integrated Design Project (IDP) project management • Identify principle factors of IDP • Understand the influence of collective mental models • Examine IDP influence on contract development • Learn the benefits of employing a 2 staged tender process • Identify IDP processes to risk minimisation and management • Learn the key considerations for effective green material procurement • Examine avenues to strengthen IDP application • Understand the importance of green tender criteria • Learn the process of Performance Contracting • Examine the application of Performance Contracting across multiple services • Learn effective delivery methods for Performance Contracting • Define a sustainable material in a Green Building context • Learn the key environmental risk criteria • Examine approaches for prioritisation of material selection • Learn fundamentals to prioritise sustainability considerations for differing key building elements • Understand the breadth of considerations which need to be examined when comparing similar materials/products • Understand the integration of different sustainable materials and building techniques • Observe the application of sustainable materials • Describe the benefits of energy efficient products 	<ul style="list-style-type: none"> • 17 hours <p style="text-align: center; color: red;">Pending Approval as at June 2, 2016</p>
<p>Unit Four:</p> <p>Life-cycle Analysis and Quick Scan LCA</p>	<ul style="list-style-type: none"> • Four Modules 	<ul style="list-style-type: none"> • One case study • Three eco-priority setting modules • Three eco-priority setting readings 	<ul style="list-style-type: none"> • Types of Life-Cycle Assessment • Simplifying LCA • Quick Scan LCA • Using filters to aid decision making 	<ul style="list-style-type: none"> • Learn the definition of Life Cycle Assessment • Identify the key stages of Life Cycle Assessment • Identify the various approaches to consider Life Cycle impacts of products • Examine the various tools, where LCA is applicable to building and material procurement • Identify the importance and influence of weightings on LCA • Gain an understanding of how LCAs are used within building and material procurement • Examine some potential future improvements which could be applied to LCA within Australia • Gain an understanding of simplified LCA techniques • Identify the key steps for conducting a Quick Scan LCA • Understand the application of Eco-Priorities within LCA weightings • Learn the definition of Embodied Energy • Understand the difference between Embodied Energy and Embodied Carbon measurements • Identify the importance of scope on LCA and Embodied Energy in particular • Understand the importance of project scope and goals on filter selection • Identify common filters of ecological priority • Understand how ranking of products is achieved using LCA • Learn the definition of a Sustainable Timber • Gain an understanding of timber certification, types, processes and outcomes 	<ul style="list-style-type: none"> • 16 hours <p style="text-align: center; color: red;">Pending Approval as at June 2, 2016</p>

				<ul style="list-style-type: none">• Identify steps to improve decision making in product procurement• Identify high performance lighting technologies• Understand the influence of operational controls on lighting efficiency• Learn the full scope of ecological impacts of electricity• Learn the different techniques of water disinfection• Gain an understanding of residential grey water and waster water disinfection processes and outcomes• Learn key considerations for application of all assessed systems and their appropriate environmental settings	
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