

OUR FREE ONLINE VOCATIONAL TRAINING AND EDUCATION IN CARBON REDUCTION

PROJECT FACTSHEET



**LOW CARBON LIVING
CRC**



KEY POINTS

- **In collaboration with Sydney TAFE, we have developed a training series to provide knowledge and skills to support action on low carbon living**
- **The training comprises four standalone online modules available free here: <https://lowcarbonliving.sydneytafe.edu.au/>**
- **The training targets tradespeople, contractors and owners of small to medium sized businesses**
- **We pilot tested the training in project RP3010 which is reducing the carbon footprint of tourism industries - <https://lowcarbonliving-bluemountains.com.au/>**

THE OPPORTUNITY / CHALLENGE

Research demonstrates that education and training can support changes in behaviour. However, in relation to supporting tradespersons, contractors and small business owners develop low carbon behaviours and practices, there is a dearth of high quality and freely available vocational training.

To address this gap, we partnered with Sydney TAFE to produce a series of free online learning modules.

The objective of our project is to support businesses, tradespeople and consumers to both embrace low carbon living and work collaboratively to advocate and deploy low carbon solutions.

CRC for Low Carbon Living

We are a national research and innovation hub supported by the Commonwealth Government's Cooperative Research Centres programme that seeks to enable a globally competitive low carbon built environment sector.

With a focus on collaborative innovation, we bring together practitioners from industry and government with leading Australian researchers to develop new social, technological and policy tools for facilitating the development of low carbon products and services to reduce greenhouse gas emissions in the built environment. For more information visit www.lowcarbonlivingcrc.com.au/

OUR TRAINING AND EDUCATION IN CARBON REDUCTION

Our training comprises four modules:

1. Introduction

This module introduces the concepts and terminology around carbon, greenhouse gasses and global warming. It equips learners with the foundation knowledge and functional vocabulary.

2. Carbon accounting and the value chain

In this module, participants learn about the principles of carbon accounting. It explores the way carbon is measured and sets the foundation for practical applications in module 3. A Value Chain topic examines the classic business value chain to low carbon living.

3. Principles of carbon conversion

This module explores carbon conversion, a method used to estimate the amount of carbon produced using common industry units. In some countries, this method is also used to underpin carbon trading. Participants also learn how to calculate their own carbon output.

4. Low carbon living, and developing a business case for low carbon work

By completing this module, participants will be able to identify sustainable practices and materials, and demonstrate their cost-effectiveness. It will provide instruction on developing a coherent business case to present this information.

BENEFITS

The Low Carbon training and education program:

- is freely available
- is hosted on an intuitive and easy-to use website that maintains a record of progress
- provides a learning and qualification pathway
- Links to existing skill sets within recognised training packages:
 - EASCON401A Implement procedures for sustainability and reduce onsite carbon footprint
 - MSMENV672 Develop workplace policy and procedures for environmental sustainability
 - MSS015001A Measure and Report Carbon Footprint
 - MSS20312 Certificate II in Competitive Systems and Practices
 - MSMENV672 Develop workplace policy and procedures for environmental sustainability

HOW YOU CAN ENROL

Sign up for a free account here:

<https://lowcarbonliving.sydneytafe.edu.au/login/signup.php>

Access the TAFE NSW Sydney - Low Carbon Living open learning material here: <https://lowcarbonliving.sydneytafe.edu.au/>

The TAFE NSW homepage has a range of courses that will teach you more about low carbon living - <https://www.tafensw.edu.au/>.

PROJECT TEAM

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Dr. John Merson, Executive Director, Blue Mountains World Heritage Institute

FURTHER INFORMATION

For more information about this project, please contact:

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TAFE NSW Sydney - Low Carbon Living

NAVIGATION

- Home
- Courses

OUR PARTNERS

- LOW CARBON LIVING CRC
- Low Carbon Living CRC
- Blue Mountains Low Carbon Tourism
- Cooperative Research Council (CRC) Programme

WANT TO LEARN MORE?

The TAFE NSW website has a range of courses that will teach you more about Low Carbon Living. Qualifications in refrigeration, building trades, design, engineering, and more can move your knowledge forward.

WELCOME

Welcome to the TAFE NSW Sydney - Low Carbon Living open learning material.

This material has been developed in conjunction with the Cooperative Research Centre for Low Carbon Living to provide you with tools and techniques to manage carbon emissions. The topics have been developed to enhance your understanding of low carbon living. This will enable you to assess and measure the amount of carbon emitted from your home, workplace or school.

Successful participants will develop the skills to reduce residential and commercial carbon emissions by identifying low carbon projects and practices, and to calculate potential savings in order to improve industry competitiveness and quality of life.

Enjoy the learning journey.

You will need to [log in](#) to see the topics. A login link is also provided at the

Available courses

- Introduction**
This module introduces the concepts and terminology around carbon, greenhouse gases and global warming.
- Carbon accounting and the value chain**
The Principles of Carbon Accounting discusses the way carbon is measured and sets the foundation for practical applications in the next module, while the Value Chain topic examines the classic business value chain to low carbon living.
- Principles of carbon conversion**
Carbon conversion is used to estimate the amount of carbon produced in common units across industry. In some countries, this is also used to calculate carbon trading. Learn how to calculate your carbon output.
- Low carbon living, and developing a business case for low carbon work**
How can you improve your carbon efficiency in a house? These examples give more than the usual 'change your lightglobes' answers, in both houses and larger precincts. Part 2 will help you demonstrate to a client that using sustainable materials and practices will be cost effective? This course will help you make a coherent business case to present to your clients and managers.
- Additional readings and information**