

Carbon EDGE

Taking carbon from a concept to an action plan

Carbon EDGE is a new two-day training program for the red meat industry, providing participants with an understanding of the opportunities for emissions reduction and carbon storage activities in a livestock grazing business.



Modules and key topics covered

1. Greenhouse gases 101

1. What is a greenhouse gas?
 - Why do we always talk about carbon?
 - Global warming potentials
 - Why are atmospheric greenhouse gas levels important?
 - Global trends, the Paris Agreement and Australia's commitments
2. Where do greenhouse gases come from in a livestock production system?
 - Scope 1, 2 and 3 emissions
 - Carbon, nitrogen and methane cycles in agriculture
3. Australian national and agricultural emissions profiles
 - National inventory
 - Typical emissions inventories in livestock-based systems
4. ACCU scheme and other policy drivers
 - Emissions Reduction Fund
 - International trade agreements
 - Australian red meat industry carbon neutral by 2030

2. Greenhouse gas accounting

1. What is greenhouse gas accounting?
 - Data preparation
 - Calculating emissions
 - Carbon Calculators
3. Interpreting your results
 - Tools for quantifying sequestration by vegetation or soils
3. Carbon credits and carbon neutrality
 1. Managing your greenhouse gas account
 - Demonstrating your carbon position
 - Know and show with data
 - Certifying entities
 - Steps to carbon neutrality
 2. Carbon farming projects
 - Australian Carbon Credit Units (ACCU) scheme
 - Registering a project with the ACCU scheme
 - Voluntary carbon market
 - Nature based markets

4. On-farm emissions

- Practices and technologies to reduce on-farm GHG emissions
1. Genetics and husbandry practices
 - Improving reproductive rates and decreasing mortality
 - Reproductive efficiency in cattle
 - Reproductive efficiency in sheep
 - Decreasing mortality
 - Mortality in cattle
 - Mortality in sheep
 - Increasing growth rates
 - Improving genetics
 2. Grazing land management, forage types and diet
 - Grazing land management
 - Pasture and legumes
 - Dietary composition
 - Plant breeding
 3. Feed additives
 - Vaccination
 - Early life programming
 4. Fertiliser application
 - Right source
 - Right rate
 - Right time

- Right place
 - Legumes and nitrogen
5. Efficiency of fuel and energy usage
 6. Renewable energy
- ### 5. On-farm sequestration
- Increasing carbon sequestration
1. Trees
 - How does vegetation sequester carbon?
 - Opportunities for action
 2. Healthy soils
 - What is soil organic matter (SOM)?
 - What is soil organic carbon (SOC)?
 - How much carbon is in my soil?
 - Limitations to building SOM and SOC
 - Management practices to increase soil carbon