



powering careers in
energy

1.0 introduction to energy

Students will be introduced to the role of energy in our community, with a focus on the various aspects of the energy value chain. Students will have the opportunity to develop their knowledge about Australian cultural heritage and native title, and how these aspects shape the modern resources industry. Wherever possible, this unit aims to link the relevance of their studies to real life scenarios.

Learning Outcomes:

Students will:

- Identify and explain the role of energy in our community
- Describe the energy value chain.
- Demonstrate an understanding of diverse global communities and cultures who engage with energy operations.
- Demonstrate an understanding of Australia's cultural heritage and native title.



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2.0 the science behind energy

Focusing on the importance of biodiversity and environmental management, students will gain insight into how organisations can work in harmony with the environment. They will explore various forms of energy, including crude oil, natural gas and renewable sources, as well as science and engineering disciplines in the context of energy operations.

Students will examine the case study of Barrow Island, a Class A Nature Reserve where Chevron Australia has been operating for more than 60 years while successfully maintaining the island's rich environmental biodiversity, demonstrating that with proper management, development and conservation can coexist.

Learning Outcomes:

Students will:

- Outline the forms and sources of energy.
- Demonstrate an understanding of the importance of science in energy operations.
- Explain the importance of biodiversity and how organisations can work with minimal impact on the environment.
- Identify how Barrow Island's Class A Nature Reserve Status has been maintained through proper management and conservation practices.



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3.0 safety

Students will be introduced to the concept of behaviour based safety and understand the importance of adopting an injury and incident free workplace. Students will learn about the practical application of Chevron's work safety program.

They will reflect on global disasters to examine what went wrong and what can be learned in relation to safety. Personal safety will also be covered, including health and wellness, drug and alcohol information and driver education relating to employment.

Learning Outcomes:

Students will:

- Outline the concept of Behaviour Based Safety and the importance of adopting an injury and incident free approach across all facets of their life.
- Demonstrate an understanding of Behaviour Based Safety in the workplace by applying major concepts to their school environment.
- Understand the role personal health and wellness plays in the workplace.
- Explain the causes, consequences and lessons learned from a global energy disaster.



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4.0 exploring careers in energy

Focusing on the key skills required for success in the workplace, students will be introduced to teamwork, trust and conflict resolution. This unit will also provide support in developing student confidence with resume writing, job applications and interview techniques.

Learning Outcomes:

Students will:

- Explore a range of career opportunities and pathways in the energy industry.
- Identify attributes and skills required for successful careers in energy.
- Demonstrate skills required for job applications and interview processes within the energy industry.



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5.0 energy exploration day

Students will be immersed in the occupational health and safety culture within Chevron, undertaking science and engineering experiences associated with the energy industry. They will have the opportunity to work alongside Chevron personnel to complete challenges and activities.

The energy exploration day draws together aspects of units one to four, providing practical application of the skills and knowledge learned. It is recommended that students successfully complete at least two of the preceding units prior to enrolling and participating in the energy exploration day.