

# Space for STEM 7-8

Program outline



# Welcome to the Orbis Space for STEM 7-8 program

The Space for STEM 7-8 program supports years 7 and 8 Science, Technologies and Mathematics teachers to design high-quality STEM learning experiences that connect classroom learning to South Australian industries and future career pathways.

A collaboration between the Department for Education and Defence Industry Pathways, this program will connect you with industry experts. You'll explore real-world applications of STEM within South Australia's growing space and defence industries.

This program is delivered face-to-face over 2 days, plus online learning.

## The learning

### Program outcomes

By the end of the program, you'll be able to:

- apply curriculum knowledge of the learning areas related to STEM
- design and evaluate engaging, real-world STEM experiences
- identify how STEM knowledge is applied in South Australia's space and defence industries, and how to integrate this knowledge into learner experiences
- build upon connections to South Australian industry networks and teaching peers.

### Online tasks

Before attending the face-to-face sessions, you'll complete a short online course to develop a shared understanding of:

- STEM pedagogical approaches
- the South Australian Curriculum and its application to STEM learning
- real-world industry connections and their role in learner engagement.

### Day 1: Introduction to STEM learning and curriculum connections

- explore research-informed STEM teaching strategies
- collaborate with colleagues to design engaging, real-world STEM experiences
- align STEM learning with the South Australian Curriculum for Public Education.

### Day 2: Reflections and building industry connections

- share artefacts and evaluate your program implementation with peers
- refine your teaching plans and strategies
- develop a deeper understanding of how STEM connects to industry and future careers
- explore opportunities for further industry connection.

## Applied learning

During the period between program days, you'll:

- develop, refine and implement your STEM learning plans
- implement classroom-based STEM projects and develop artefacts and documentation to demonstrate learning.

You'll be supported throughout the program by facilitators. This includes an online check-in for feedback and guidance between program days.

## Program requirements

To achieve satisfactory completion, you need to:

- actively participate in all program days and activities
- complete and share applied learning tasks.

When you've met the above requirements, you'll receive a certificate of completion from Orbis. This can be used as evidence for your required professional learning hours for registration renewal.

If you're unable to meet these requirements, please contact Orbis to discuss.

Engaging.  
Empowering.  
Purposeful.  
Collaborative.  
Exemplary.



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