

# Professional Development



in Technology and STEM (TAS) education

## Engineered Systems and Digital Manufacture

In Castle Hill on the 1st of July 2019

6 hours of training. All meals and training materials included.

Register for courses and see more details at [dontpanic.net.au](http://dontpanic.net.au) and selecting from the courses offered.

## Don't Panic STEM curriculum support

### Technology Teacher Professional Development

by Peter and Ruth Thompson



This is an integrative STEM course, during which teachers will be introduced to concepts of Engineered Systems and how to apply them to design projects. Participants will learn about dynamics from first principles, by making quick working models of planes, testing them using the Power Anchor(TM), recording results and modifying the design. Data transfer and storage are covered to meet the needs of a Digital Technologies curriculum.

Participants will then manufacture a mechanised device which uses wind energy to rotate a crank. This provides opportunity for innovative and creative thinking via CAD or modelling with card. CAD files included.

Course costs include all materials needed for manufacture of products throughout the day. Teaching program in NESAs program builder format included.

Participants will engage in discussion about problem / project based learning, its application in the classroom and how to develop appropriate assessment methodologies.

Targeted concepts are Project Based Learning, Design Thinking, Computational and Algorithmic thinking and Integrated Learning.

STEM skills are identified as being crucial to Australia's prosperous future.

**When:** Monday 1st July

**Where:** Castle Hill RSL

**Time:** 8:30 to 4:00 pm

**Cost:** \$400 inc resources

**Contact:** [Ruth@DontPanic.net.au](mailto:Ruth@DontPanic.net.au)

Don't Panic is endorsed to provide NESAs Registered Professional Development for teachers accredited at Proficient Teacher. Completing the Engineered Systems course will contribute 6 hours of QTC Registered PD addressing 3.3.2, 3.4.2, 6.2.2, 6.4.2 from the Australian Professional Standards for Teachers towards maintaining Proficient Teacher Accreditation in NSW.

