

Become a materials technician

Kickstart your career as a Department of Transport and Main Roads' cadet!

As a materials technician with the Department of Transport and Main Roads (TMR), you will contribute to infrastructure and construction projects by working in a team environment ensuring projects are constructed with the highest quality materials.

What does a materials technician do?

A materials technician is involved in the sampling and testing of soil, aggregate, concrete, bitumen, and asphalt used in road transport infrastructure construction, and will gain experience in the operation and calibration of state-of-the-art testing equipment.

They test materials to check compliance with earthworks, pavement, and structures design standards, while investigating material faults and failures. They also support research and development projects aimed at improving the quality of existing materials and the revision of specifications and test methods.

You will work closely with a range of professionals, including civil engineers and designers. As you develop your expertise, you will then provide expert advice that improves the quality of construction projects the materials are used in. You will also gain experience in project management, performing calculations, processing of samples, calibration of equipment, and training.

Personal requirements for a materials technician

If you're naturally curious, skilled at mathematics and science, and interested in technology, this may be the career for you.

Working individually and as part of a team, you'll need to be detail oriented with great problem-solving skills and strong analytical and communication skills.

What do I need to do?

To be eligible for a materials technician cadetship, you must be:

- studying or eligible for enrolment with an Australian tertiary institution to complete an Associate Degree in Civil Engineering, or equivalent qualification, accredited under the Dublin Accord
- an Australian citizen or live in Australia with permission under a Commonwealth law to work in Australia.

Qualifications

- [TAFE – Associate Degree in Civil Engineering](#)
- [UniSQ – Associate Degree of Engineering \(Civil Engineering\)](#)
- [COU – Associate Degree of Engineering \(Civil\)](#)

Need more information?

Find out more about the TMR Cadetship Program here: tmr.qld.gov.au/cadetships.

