



ENGINEERING FOUNDATION

2027 FACT SHEET



CTU
training solutions

Private
Tertiary
Education

www.ctutrainning.ac.za





Engineering Foundation: Study Readiness Course 2027

YOUR FIRST STEP TOWARDS AN OCCUPATIONAL ENGINEERING STUDY PATHWAY

The Engineering Foundation is a 12-week study readiness programme designed to help aspiring engineers build the confidence, skills, and foundational knowledge needed to succeed in Occupational Engineering Study Pathways.

Think of it as a **“starter pack”** for occupational engineering studies.

Students gain practical exposure to engineering concepts, digital tools, workplace expectations, and technical skills before progressing into their chosen engineering pathway.

WHY SPONSORS AND PARENTS CHOOSE ENGINEERING FOUNDATION

- ▶ **Reduce the Risk of Academic Failure:**
Many students struggle in their first year because they are not fully prepared for the demands of engineering studies. This programme helps bridge that gap.
- ▶ **Build Confidence Before Qualification Studies:**
Students develop an understanding of the engineering study field options and job roles, study skills, digital literacy, and technical awareness before entering a full occupational engineering programme.
- ▶ **Develop Employability Skills:**
In addition to technical knowledge, students learn communication, professional behaviour, teamwork, project planning, and workplace expectations.
- ▶ **Practical Learning Experience:**
Students participate in real-world activities, CAD drafting exercises, project tasks, and industry-relevant learning experiences.
- ▶ **Smooth Transition into Occupational Engineering Study Pathways:**
The programme introduces the concepts, language, software, and expectations students will encounter during occupational engineering studies.

AT A GLANCE

Programme Feature	Details
Duration	12 Weeks
Study Mode	Blended Learning (Online + Facilitated Support)
Ideal For	School leavers and aspiring Occupational Engineering Programme study pathway students
Outcome	Increased readiness for Occupational Engineering studies
Certification	CTU Training Solutions Certificate of Completion
Start Date	2027

WHAT STUDENTS WILL LEARN

By the end of the programme, students will be able to:

- ▶ Understand the Engineering field specialisations and job roles
- ▶ Use essential digital tools confidently
- ▶ Communicate professionally
- ▶ Understand the content of various generic modules across all specialisations
- ▶ Apply for Recognition of Prior Learning (RPL) when enrolling for Occupational Engineering Study Pathways at CTU Training Solutions.
- ▶ Approach further Occupational Engineering Programme studies with improved confidence and preparedness

LEARNING EXPERIENCE

This is not a traditional classroom-only course.

Students will engage through:

- ▶ Interactive learning sessions
- ▶ Digital learning activities
- ▶ Practical engineering-related projects
- ▶ Computer-Aided Drafting (CAD)
- ▶ Project-based tasks
- ▶ Guided lecturer support
- ▶ Independent learning activities that develop self-discipline and study habits

MODULES INCLUDED

Engineering Foundations

- ▶ Engineering field specialisations and job roles
- ▶ Occupational Health & Safety
- ▶ Project Management
- ▶ Resource & Procurement Management

Workplace Success Skills

- ▶ Business Communication
- ▶ Customer Service
- ▶ Ready-for-Work Standards

Digital and Technical Skills

- ▶ Digital Tools
- ▶ Computer-Aided Drafting (CAD)

These modules provide the foundation needed to thrive in future Occupational Engineering studies.



WHO SHOULD APPLY?

This programme is ideal for:

- ▶ Recent Grade 12 learners with Mathematics or Technical Mathematics, & Physical Science or Technical Science interested in Occupational Engineering studies
- ▶ Students who want to strengthen their readiness before entering Occupational Engineering studies
- ▶ Students who need additional confidence in technical, digital, or academic skills towards Occupational Engineering studies
- ▶ Students who are not yet sure about the Occupational Engineering specialisation study pathway they would like to pursue.

WHAT DOES SUCCESS LOOK LIKE?

Students who complete the Engineering Foundation will:

- ▶ Understand what is expected in engineering studies.
- ▶ Be familiar with key engineering concepts and terminology.
- ▶ Develop stronger academic and workplace skills.
- ▶ Be better prepared for Occupational Engineering study pathways.
- ▶ Have greater confidence when entering higher-level Occupational Engineering studies.

IMPORTANT INFORMATION FOR SPONSORS

What This Programme Is

- ▶ A structured readiness and preparation programme for Occupational Engineering Programmes.
- ▶ A stepping stone into Occupational Engineering studies.
- ▶ An investment in student success and retention.

What This Programme Is Not

- ▶ Not an Engineering qualification.
- ▶ Does not automatically guarantee admission to a subsequent programme at other institutions.
- ▶ Does not provide a professional engineering designation.

Admission to future programmes remains subject to meeting the applicable requirements.

THE VALUE OF YOUR INVESTMENT

Engineering Foundation helps students start their Occupational Engineering study journey with confidence, practical exposure, and the foundational skills needed to succeed.

Prepared students are more likely to stay engaged, perform better academically, and progress successfully into their chosen engineering study pathway.

“Build Confidence. Develop Skills. Start Engineering the Right Way.”

Disclaimer

The content of this fact sheet is subject to change without notification due to Course approval requirements, curriculum updates, market needs, legislation, scheduling, software requirements or institutional decisions. Prospective students should consult the latest approved Course information before enrolment. CTU Training Solutions (Pty) Ltd, reserves the right to amend Course content and delivery arrangements. Course commencement remains subject to minimum enrolment requirements.

I acknowledge that I have received and understood the information contained in this fact sheet and that the final Course content, admission requirements, delivery arrangements, assessments, recognition and fees remain subject to institutional approval.

Student name:.....

Student signature:.....

Name of legal guardian:.....

Signature of legal guardian:.....

Name of sales consultant:.....

Consultant signature:.....

Campus:.....

Date:.....

*** Please note the original signed copy should be kept on the student record file.**

CONTACT US

customerservice@ctutrainig.co.za | ctutrainig.ac.za | 0861 100 395