This course is for students undertaking the Electrical Trades course in Australia and New Zealand. The content is aligned to the current Training Package (UEE07) and covers the essential knowledge and skills that make up the core content of the course.

This bestseller’s hallmark features include uncomplicated language throughout, excellent use of fully worked examples and illustrated images providing visual aids to learners. Now with a new full colour design, this is the perfect text for students commencing studies in UEE30811 Certificate III in Electrotechnology Electrician, UEE22011 Certificate II in Electrotechnology (Career Start) and the NZ National Certificate in Electrical Engineering (Electrician for Registration) (Level 4) courses at TAFE, RTOs and Private College.

The material in this course was provided by Cengage Learning, Inc. for instructional use and review. Cengage Learning is the leading provider of learning materials for vocational learning in Australia.

Select a chapter below to open a menu from which you can access the relevant activities for that chapter.

You can return to this main menu screen at any time using the navigation options at the top of the screen.
21. Transformers

The transformer is an essential part of today's power transmission and distribution. Efficient, practical transformer designs did not appear until the 1880s, but within a decade the transformer and the AC power system had triumphed over the DC power system.

Transformer design still relies on the principles established over 100 years ago, including many of the construction techniques. This chapter examines the operating principles of single- and three-phase transformers, and describes some of the tests and measurements associated with transformers.

Please select from the list below to enter an activity, or select the X button at the top right to return to the main menu.

- Read the chapter (Transformers)
- Download the PowerPoint (Transformers)
- Explore the weblinks (Transformers)
- Test bank (Transformers)

This course is written to the current UEE07 Electrotechnology Training Package and covers the essential knowledge and skills that make up the core and common elective components of the UEE30811 Certificate III in Electrotechnology Electrician course.

With its uncomplicated language, excellent use of fully worked examples and illustrated images providing full colour visual aids to learners, this is the perfect course to gain entry into this area. It will cover topics such as circuits, generators, transformers, resistors and AC/DC components.

This course can also be used to deliver training in the UEE22011 Certificate II in Electrotechnology (Career Start).

A complete course comes with animated PowerPoint's, an Instructors Manual, artwork from the text and a testbanks. These can also be purchased separately at chapter level.