

Grade 10 Electrical Technology

Term 2 - 55 complete lesson plans

Ready to teach, in the KICD lesson-plan format | 40-minute lessons | PDF and editable Word

ABOUT THIS PACK

55 complete, ready-to-teach Grade 10 Electrical Technology lesson plans for Term 2, covering Electro-magnetism, measuring instruments, Generation, transmission and distribution of electricity and equipment at consumers intake point.

TOPICS IN THIS PACK

Topic	Name	Lessons
2.2	Electro-magnetism	15
2.3	Measuring Instruments	14
3.1	Generation, Transmission and Distribution of Electricity	14
3.2	Equipment at Consumers intake point	12

INSIDE EVERY LESSON PLAN

- The specific learning outcomes, key inquiry question, core competencies, values and PCIs, and the resources needed.
- A timed lesson flow: what the teacher does and what the learners do, from introduction to summary.
- The key content (a worked example, notes or a practical with its expected results), then four practice questions with the answers for the teacher.
- The common mistake to watch for, and ideas for learners who need support and for those ready for more.
- A four-level CBC assessment rubric (EE, ME, AE, BE), homework, and a blank reflection space to fill in after teaching.

A TASTE OF LESSON 1

The principle of electromagnetism

By the end of the lesson, the learner should be able to: a) explain that an electric current produces a magnetic field; b) describe Oersted's observation and its importance

Current and magnetism

In 1820 the Danish scientist Hans Christian Oersted noticed, during a lecture, that a compass needle near a wire twitched when a current flowed in the wire. He had found that an electric current produces a magnetic field around it, which ties electricity and magnetism together. This link is called electromagnetism. A magnet is not needed: a current alone makes a field. The field exists only while the current flows: switch off the current, and the field disappears.

You also receive this pack as an editable Word file, so you can change any lesson to suit your class before you print it. Lessons follow the order of the KICD curriculum design.