

LESSON PLAN

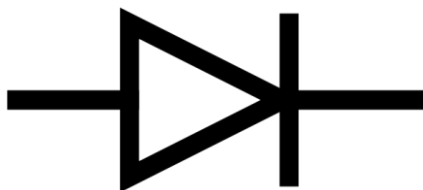
Aim	<p>The learners are introduced to semiconductor devices. This lesson presents the diode.</p> <p>The lesson explains how a basic diode works, the forward and reverse bias modes of operation. Learners will also learn the symbols of the diode. The lesson also introduces different types of diodes like the Zener diode, the Light emitting diode, and the photo diode</p> <p>During the second stage of this lesson, the learners are exposed to practice. A worksheet is completed individually by each learner. Learners are then divided in groups of two and are given two practical tasks to complete.</p>
Level	Language levels A2 and upwards
Subject	Semiconductor diodes
Approx. time overall	2 sessions of 2 hours each inside an electronics laboratory
Language	<p>Grammar associated with the use of</p> <ul style="list-style-type: none"> passive voice for descriptions <p>Specific key vocabulary related to semiconductor diodes.</p> <p>The learners will work with functional language such as:</p> <p>How to follow a set of instructions</p> <ul style="list-style-type: none"> Imperative

Plan	Short Description	Links to Activities
Stage 1	The diode function and different types of diodes	links deactivated, use link at the bottom of this page to access the complete lesson plan and all the materials
Stage 2	Lab experiments: Testing a diode; Examining diode operation in the forward and reverse bias modes	

Semiconductor Diodes:

Language Understanding Exercise 1:

Identify the following symbols by drawing a line between the symbol and the right term shown on the right.



Zener Diode



Diode in Forward Bias

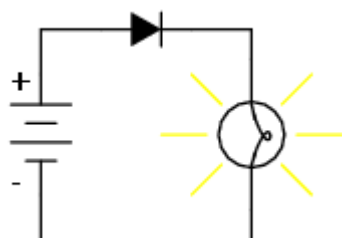
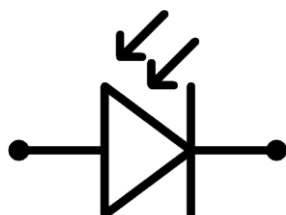


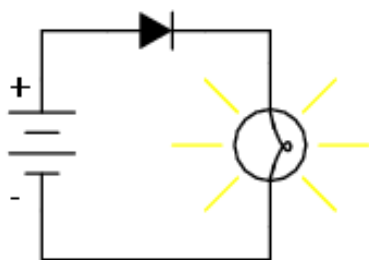
Photo-diode



Rectifier diode



Diode in Reverse Bias



Light Emitting Diode