Electronics and Semiconductor Engineering
Assessment Fact Sheet

.SHL.

Overview

Multi-choice test that measures the knowledge of semiconductors, two terminal and three terminal devices, analog electronics, digital electronics and basics of VLSI.

Relevant Job Roles	Microsystems Engineer, Semiconductor Processor, Electronics Engineering Technician, Electrical and Electronics Repairer

Details

Language	English (US)
Average Testing Time (minutes)	07 minutes
Allowed Time (minutes)	15 minutes
Maximum Number of Questions	12 questions
Number of Sittings	One
Test Type	Multiple Choice - IRT (1PL)
Sector	Engineering
Scores Reported	• Overall Score • Semiconductors and Semiconductor Devices • Analog Electronics • Digital Electronics
O*NET Competency	Engineering and Technology

Knowledge, Skills, Abilities And Competencies Measured

The following areas are covered:

- Basics of semiconductors
- Two terminal devices
- Three terminal devices
- Small and large signal circuit analysis
- Oscillators and feedback
- Op-amps
- Filters
- Boolean algebra and logic families
- Combinational circuits
- Sequential circuits
- Basics of VLSI systems