

# ELECTRONICS

## ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

### Unit of Competency: DEMONSTRATE UNDERSTANDING OF ELECTRONICS Lecture Notes

#### Course Outline

1. Demonstrate understanding of semiconductor theory
  - Definition of terms
  - Types of materials
    - Insulators
    - Conductors
    - Semiconductors
  - Types of semiconductor materials
    - Intrinsic and Extrinsic
2. Demonstrate understanding of semiconductor diodes
  - Definition of terms
  - P-N junction
  - Semiconductor diodes
  - Forward and reverse characteristics
  - Types of semiconductor diodes
  - Application of semiconductor diodes
3. Demonstrate understanding of transistors
  - Bipolar junction transistors (BJTs)
  - Operation of NPN and PNP transistors
  - Field effect transistors (FETs)
    - BJT's and FET's configuration
    - Characteristics of transistors
    - Gain of transistors
    - DC and AC load lines
4. Apply special semiconductor devices
  - Definition of terms
  - Types of special semiconductor devices
    - UJT
    - SCR
    - LASCR
    - DIAC
    - TRIAC
    - SCS
  - Application of special semiconductor devices
5. Perform rectification
  - Definition of terms
  - Classification of rectifiers
  - Types of rectifiers
  - Application of rectifiers
  - Types of converters
  - Application of converters
6. Apply amplifiers
  - Definition of terms
  - Types of amplifiers

# Industrial Electronics Lecture Notes

**Peipei Pang**



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