

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA  
DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION  
FIRST SEMESTER EXAMINATION  
2012/2013 SESSION

Course Title: Electrical Workshop Practice

Course Code: I E T 512

Credit Units: 2 units

Time Allowed: 2 hours

Instructions: Answer any four questions

Course Lecturer: G. A. Usman

1. (a.) What is an electrical workshop?  
(b.) List and discuss any five important factors to be considered in the planning of an electrical workshop.  
(c.) What is the full meaning of NEC? What is the purpose of its production?
2. (a.) Define the concept of educational management and organization.  
(b.) Discuss in detail the major causes of electrical workshop accidents.  
(c.) State how these accidents could be controlled.
3. (a.) State and explain any six duties of instructors in the prevention of accidents in electrical workshop.  
(b.) State any five principles that could be adopted in the management of electrical workshop equipment and tools.  
(c.) Discuss the roles of Government, employers and employees in the prevention of accidents in the workplaces.
4. (a.) Explain any two hazards envisaged when working with electrical/electronics equipment.  
(b.) State any ten workshop safety rules and regulations.  
(c.) What is the responsibility of the Department of Occupation Health and Safety in Power Holding Company of Nigeria?
5. (a.) Discuss the characteristics of a good workshop instructor.  
(b.) What does the NEC document said about the following?
  - (i) Working space in the workshop
  - (ii) Clear spaces
  - (iii) Entrance to working spaces
  - (iv) Illumination
6. Explain the following:
  - (a.) The concept of Pittsburgh colour Dynamics
  - (b.) The function of a thermostat in an electrical appliance,
  - (c.) What is good housekeeping for fire safety? Give some hints.
  - (d.) Show in a tabular form the colour coding of fire extinguishers.