



# higher education & training

Department:  
Higher Education and Training  
REPUBLIC OF SOUTH AFRICA

## NATIONAL CERTIFICATE ELECTRICAL TRADE THEORY N3

(11041263)

12 April 2021 (X-paper)  
09:00–12:00

Nonprogrammable calculators and drawing instruments may be used.

This question paper consists of 7 pages and 1 formula sheet.

(11041263)

-3-

### QUESTION 1: DOMESTIC APPLIANCES

- |     |   |  |             |
|-----|---|--|-------------|
| 1.1 | 1.1.1   | Explain how the temperature of a laundry iron can be controlled.                                     | (2)         |
|     | 1.1.2   | Give TWO possible fault conditions that could lead to an iron tripping the main earth-leakage relay. | (2 × 2) (4) |
|     | 1.1.3   | Which type of thermostat is used in this appliance?  | (1)         |
| 1.2 | Draw a neat, labelled circuit diagram to show how the two elements of a stove plate are connected to a three-heat switch to give high heat. Clearly indicate the two elements, three-heat switch and the supply (live and neutral). |  | (3)         |

[10]

### QUESTION 2: PROTECTION

- |     |  |
|-----|--|
| 2.1 | Indicate whether each of the following must be earthed, must not be earthed or |
|-----|--|

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**N Noddings**



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## **Table of Contents Electric Trade Theory Nexam Paper 2march 2and Memorandum**

1. Understanding the eBook Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - The Rise of Digital Reading Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Advantages of eBooks Over Traditional Books
2. Identifying Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Personalized Recommendations
  - Electric Trade Theory Nexam Paper 2march 2and Memorandum User Reviews and Ratings

- Electric Trade Theory Nexam Paper 2march 2and Memorandum and Bestseller Lists
- 5. Accessing Electric Trade Theory Nexam Paper 2march 2and Memorandum Free and Paid eBooks
  - Electric Trade Theory Nexam Paper 2march 2and Memorandum Public Domain eBooks
  - Electric Trade Theory Nexam Paper 2march 2and Memorandum eBook Subscription Services
  - Electric Trade Theory Nexam Paper 2march 2and Memorandum Budget-Friendly Options
- 6. Navigating Electric Trade Theory Nexam Paper 2march 2and Memorandum eBook Formats
  - ePub, PDF, MOBI, and More
  - Electric Trade Theory Nexam Paper 2march 2and Memorandum Compatibility with Devices
  - Electric Trade Theory Nexam Paper 2march 2and Memorandum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Highlighting and Note-Taking Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Interactive Elements Electric Trade Theory Nexam Paper 2march 2and Memorandum
- 8. Staying Engaged with Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electric Trade Theory Nexam Paper 2march 2and Memorandum
- 9. Balancing eBooks and Physical Books Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electric Trade Theory Nexam Paper 2march 2and Memorandum
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Setting Reading Goals Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Fact-Checking eBook Content of Electric Trade Theory Nexam Paper 2march 2and Memorandum
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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