



# higher education & training

Department:  
Higher Education and Training  
REPUBLIC OF SOUTH AFRICA

## MARKING GUIDELINE

### NATIONAL CERTIFICATE

### ELECTROTECHNICS N5

**22 NOVEMBER 2019**

This marking guideline consists of 10 pages.

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DATE: 23 NOVEMBER 2019

#### CONCESSION

1. Reduce marks for QUESTION 4.2 by 11 marks
2. The total 100 to be reduced by 11 marks to 89 for all candidates
3. Mark all candidates out of a total of 89 marks
4. Convert the mark achieved out of 89 per candidate to percentage
5. Record the percentage achieved on the mark sheet

# N5 Eletrotechnics Memo

**G Thomas**



## **N5 Eletrotechnics Memo:**

**New Models for Technical and Vocational Education and Training** Makgato, Moses, Afeti, George, 2020-12-18

Technical and vocational education and training at technical schools are major contributing factors in combating poverty unemployment and inequality. The primary purpose of technical and vocational education and training is to prepare students and learners for the world of work and for a smooth transition from education institutions into the workplace. As the Fourth Industrial Revolution continues to create more radical changes in the labor market, experts are calling for a reform of education including vocational education and training and adult and professional education. **New Models for Technical and Vocational Education and Training** is an essential scholarly research book that examines TVET and CET colleges and programs that provide intermediate skills to enhance students' chances of employability and entrepreneurship in Industry 4.0. The book explores knowledge in respect to workforce preparation, digital skills development, teaching and learning of TVET, flexibility and articulation of TVET to respond to work, integrated learning and reskilling and upskilling to avoid skill mismatches. It is ideal for TVET schools, academicians, curriculum designers, managers, training officers, administrators, vocational professionals, researchers, and students.

**Learning Electricity and Electronics with Advanced Educational Technology** Michel Caillot, 2013-06-29. The objective of the NATO Advanced Research Workshop **Learning electricity and electronics with advanced educational technology** was to bring together researchers coming from different domains. Electricity education is a domain where a lot of research has already been made. The first meeting on electricity teaching was organized in 1984 by R. Duit, W. Jung, and C. von Rhoneck in Ludwigsburg, Germany. Since then, research has been going on, and we can consider that the workshop was the successor of this first meeting. Our goal was not to organize a workshop grouping only people producing software in the field of electricity education or more generally in the field of physics education, even if this software was based on artificial intelligence techniques. On the contrary, we wanted this workshop to bring together researchers involved in the connection between cognitive science and the learning of a well-defined domain such as electricity. So during the workshop, people doing research in physics education, cognitive psychology, and artificial intelligence had the opportunity to discuss and exchange. These proceedings reflect the different points of view. The main idea is that designing a learning environment needs the confrontation of different approaches. The proceedings are organized in five parts which reflect these different aspects.

**Research Anthology on Vocational Education and Preparing Future Workers** Management Association, Information Resources, 2022-04-08. Many students across the globe seek further education for future employment opportunities. Vocational schools offer direct training to develop the skills needed for employment. New emphasis has been placed on reskilling the workforce as technology has infiltrated all aspects of business. Teachers must be prepared to teach these new skill requirements to allow students to directly enter the workforce with the necessary competences intact. As the labor market and industry are changing, it is essential to stay current with the best teaching

practices within vocational education courses to provide the future workforce with the proper tools and knowledge The Research Anthology on Vocational Education and Preparing Future Workers discusses the development opportunities and challenges of vocational education courses and how to best prepare students for future employment It presents the best practices in curriculum development for vocational education courses and analyzes student outcomes Covering topics such as industry academia collaboration student satisfaction and competency based education this major reference work is an essential resource for academic administration pre service teachers educators of vocational education libraries employers government officials researchers and academicians *Human Factors Engineering Bibliographic Series* ,1966 *The Electronics Journal* ,1915 **Telecommunications Abstracts** ,1989 U.S. Government Research & Development Reports ,1967 Consumers Index to Product Evaluations and Information Sources ,2000 *IRE Transactions on Human Factors in Electronics* Institute of Radio Engineers. Professional Group on Human Factors in Electronics,1960 **The Electrical Experimenter** ,1919 **Proceedings** ,1979 **Radio & TV News** ,1921 Some issues Aug 1943 Apr 1954 are called Radio electronic engineering ed called in 1943 Radionics ed which include a separately paged section Radio electronic engineering varies v 1 no 2 v 22 no 7 issued separately Aug 1954 May 1955 **The Electric Journal** ,1915 General Electric Review ,1922 **The National Electrical Contractor** ,1917 **Automobile Trade Journal** ,1917 *Popular Mechanics Magazine* ,1916 **Popular Science Monthly and World Advance** ,1916 **Industrial Refrigeration** ,1915 *Universal Engineer* ,1916

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