



MARKING GUIDELINES

NATIONAL SENIOR CERTIFICATE EXAMINATION

2019

ENGINEERING GRAPHICS AND DESIGN

PAPER 1

MARKS: 200
TIME: 3 HOURS



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QUESTION	SECTION	MARKS	MODERATED	MAXIMUM	CODE
1	CIVIL ANALYTICAL			20	
2	ORTHOGONAL PROJECTION & DEVELOPMENT			40	
3	TWO POINT PERSPECTIVE			40	
4	CIVIL DRAWING			100	
	TOTAL			200	

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PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This question paper consists of 8 pages including the cover page and 4 questions.
2. All questions must be answered.
3. Unless specified otherwise, all questions are in First-angle Orthographic Projection.
4. Unless specified otherwise, all questions are to be completed to a scale of 1:1.
5. All answer sheets must be reshiped in numerical order, even questions that have not been answered.
6. All construction work must be shown.
7. Print your examination number neatly on each page.
8. Use only the answer sheets provided.
9. Your drawings should reflect neatness and accuracy.
10. All dimensions or detail not given may be assumed in good proportion.
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Engineering Graphics And Design Grade 12 Exam Papers

Marcel A. Müller



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Journal of Engineering Graphics ,1963 Residential Design Using AutoCAD 2012 Daniel John Stine,2011 Residential Design Using AutoCAD 2012 is an introductory level tutorial which uses residential design exercises as the means to teach AutoCAD 2012 Each book comes with a CD containing numerous video presentations in which the author shows and explains the many tools and techniques used in AutoCAD 2012 After completing this book readers will have a well rounded knowledge of Computer Aided Drafting that they can use in the industry and a feeling of satisfaction having completed a set of residential drawings This textbook starts with an optional section that covers basic hand sketching techniques and concepts intended to increase your ability to sketch design ideas by hand and to think three dimensionally The book then proceeds with a basic introduction to AutoCAD 2012 The first three chapters are intended to get the reader familiar with the user interface and many of the common menus and tools Throughout the rest of the book readers design a residence through to its completion Using step by step tutorial lessons the residential project is followed through to create elevations sections details etc Throughout the project new AutoCAD commands are covered at the appropriate time Focus is placed on the most essential parts of a command rather than an exhaustive review of every sub feature of a particular command The Appendix contains a bonus section covering the fundamental principles of engineering graphics that relate to architecture

Engineering Design Graphics Journal ,1961 Residential Design Using AutoCAD 2011 Daniel John Stine,2010-05-24

The videos contained on the included DVD make it easy to see the menu selections and will make learning AutoCAD straightforward and simple At the start of each chapter the reader is prompted to watch a video that previews the topics that will be covered in the proceeding chapter This allows the reader to be familiar with the menu selections and techniques before they begin the tutorial Readers will feel more confident in what they are doing and have a better understanding of the desired outcome of each lesson by watching these videos **Annual Report** South Africa. Department of Education,2005

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