

## REPORT – (For publication)

EXAMINATION: **NOVEMBER 2010**

SUBJECT: **ENGINEERING GRAPHICS AND DESIGN**

GRADE: **12**

PAPER: **1**

### Make a comment on the question paper in general:

- The mark allocation was appropriate for all of the questions.
- In Question 1 similar questions could have been clustered, for example, 1, 2, 13, 14 and 15.
- In Question 2, unnecessary marks were allocated for the starting point – centre lines where given. In future only a reference point can be given on the answer sheet.
- Alternative responses to the marking guideline were added only after the discussions of the marking guidelines in Pretoria. This is a very crucial exercise since the candidates benefit in the long run.
- Educators should encourage all EGD candidates to familiarize themselves with SANS 10143. They confuse themselves when they use the conventions of various textbooks.

### QUESTION 1 (Analytical)

- The learner's knowledge of the SANS 0143 was very poor.
- Question 3 – the candidates answered poorly
- Question 12 – Calculations poorly answered.
- S (sink) – abbreviation was a problem for the learners.
- Candidates do not know how to identify the cavity wall.
- Did not know the function of a lintel.

### QUESTION 2 (Interpenetration and Development)

- This question was very poorly answered.
- Candidates must be taught to draw to a certain scale.
- The concept that true lengths should be used with the development, should be properly taught.
- The transition from round to square, and the development of the cone, was a problem.

### QUESTION 3 (2-Point Perspective)

- Question was answered fairly well.
- Labelling of the vanishing points was done poorly.
- Candidates must be taught to place the perspective drawing on the ground line.
- Do not erase fundamental projection lines. (LVP, RVP, etc.) Marks were lost.

### QUESTION 4 (Civil – Section and Plan)

#### Elevation:

- Most learners answered this part of the question very well.
- Labelling was poor. (Do what is asked)
- Waste-water disposal system extremely poorly answered.
- Downpipe detail – (gutter and rainwater) poorly answered.
- Application of SANS and conventions on the floor plan poor.

#### Plan:

- Place the fixtures (basin, toilet, shower and built – in cupboards) at the correct positions as given on the question paper.
- Electrical fixtures – the wall plugs and light switches need to be drawn touching the wall.
- Drawing to scale created problems for some candidates .