



#### CHIEF DIRECTORATE: EXAMINATIONS AND ASSESSMENT

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#### ERRATUM

TO: CHIEF EDUCATION SPECIALISTS DISTRICT CURRICULUM COORDINATORS DISTRICT ASSESSMENT OFFICIALS (DAOS DISTRICT SUBJECT ADVISORS (DSAS) PROVINCIAL SUBJECT COORDINATORS CIRCUIT MANAGERS DEPUTY CHIEF EDUCATION SPECIALISTS SENIOR EDUCATION SPECIALISTS PRINCIPALS OF SCHOOLS IN THE FET BAND

### SUBJECT: ERRATUM – MECHANICAL TECHNOLOGY: WELDING GRADE 12 SEPTEMBER PREPARATORY EXAMINATION 2024

#### DATE: 23 AUGUST 2024

The Mechanical Technology: Welding Grade 12 September Preparatory Examination was written on Tuesday, 20 August 2024. We were made aware of certain amendments and omissions that were discovered during the marking process and memorandum discussion on the provided marking guideline.

In order to address this and to ensure that learners are not disadvantaged, the following standardised approach to marking must be adopted across the Province. The following guidelines regarding marking was prepared in conjunction with the examiner and moderator.

#### **QUESTION/VRAAG7**

- 7.3 **Stress and Strain:** 
  - 7.3.1 Stress

$$stress = \frac{Force}{Area}$$

Area = 
$$\frac{\pi X(38)^2}{4 \times 10^6}$$

$$= 1,134 \times 10^{6} \checkmark$$

Stress = 
$$\frac{100 \times 10^3}{1,134 \times 10^{-3}}$$
  $\checkmark$  OR  $\frac{100 \times 10^3}{\frac{\pi \times (38)^2}{4 \times 10^6}}$ 



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(6)

## 7.3.2 Strain

$$strain = \frac{\Delta l}{ol}$$

$$strain = \frac{0.5}{150}$$

$$=3.33 \times 10^{-3}$$
 (3)

# 7.3.3 Young's modulus of elasticity

 $= 3.333333333 \times 10^{-3} \checkmark$ 

Young's modulus of elasticity = 
$$\frac{Stress}{Strain}$$
   
 $E = \frac{88174483,71}{3,33333 \times 10^{-3}}$    
 $E = 2,645234511 \times 10^{10} \text{ Pa}$    
OR

$$E = 2,65 \text{ GPa}$$
 (3)

We sincerely apologise for any inconvenience we might have caused.

Yours in education.

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MRS P.E. JAPHTA (A) CES: AIDIBM SUBDIRECTORATE

23 August 2024 DATE



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