



# *E-Learning Modules*

A decorative graphic on the left side of the slide, consisting of a series of horizontal lines of varying lengths, creating a staircase-like effect.

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- **Intended use**
  - One source of technical information for all parties
    - Regulators and Industry
  - Training tool for Regulators (technical officers)
  - Screening tool
  - Ongoing educational resource
  - One part of the learning process





- How do they work
- Provide an explanation and demonstrate procedures for testing a NAWI:
  - Step by step written test procedure
  - Animation that shows the procedure being performed
  - Quick quiz
  - Assessment
  - Open reference resource



- Sample written test procedure  
Accuracy of the Zero setting device

- 1 Exercise the instrument (if this is the first test being performed).
- 2 Zero the instrument by pushing the **zero-setting** button.
- 3 Place a load of at least the minimum capacity but  $\leq 4\%$  of maximum capacity on the instrument.
- 4 Apply delta loads of  $1/10^{\text{th}}$  e until the indication changes up.
- 5 Remove the last delta load.
  - > Steps 3-5 take the instrument to the changeover point.
- 6 Push the **zero-setting** button.
  - > This will set the zero to  $\pm 0.25e$  of the centre of zero.
- 7 When the indication has stabilised and the zero annunciator is illuminated, add a load equal to  $10.25e$ .
  - > The indication should read  $10e$ .
  - > If it indicates  $11e$  then the instrument fails.
- 8 Add an additional load of  $0.5e$  to the load receptor, making the total load  $10.75e$ .
  - > If the indication reads  $11e$ , the instrument passes the zero test.
  - > If it indicates  $10e$  it fails.

# Sample test animation

## Accuracy of the Zero setting device



- Sample Quiz question  
Accuracy of the Zero setting device

A 30 kg scale where  $e = 10$  g is being tested.

1. What is the first step that you should take?

- ☐ Push the **zero-setting** button.
- ☐ Exercise the instrument.
- ☐ Put your first set of weights onto the instrument.

Submit

Show feedback

- Sample Quiz question response  
Accuracy of the Zero setting device

**Do you think you've got it?**


A 30 kg scale where  $e = 10\text{ g}$  is being tested.

**1. What is the first step that you should take?**


Push the **zero-setting** button.


✓ Exercise the instrument.

Put your first set of weights onto the instrument.

Submit  Show feedback

- Sample assessment question  
Accuracy of the Zero setting device

 **Assessment – Zero-setting device accuracy test**



A 300 kg scale where  $e = 100$  g is being tested on verification. You have to complete the zero-setting device accuracy test on this instrument.

**1. Which loads should be used to test this instrument?**

☐ 25e, 30e.

☐ 25.25e, 25.75e.

☐ 10e, 11e.

☐ 10.25e, 10.75e.

**Submit** **Show feedback**





- Learning Management System (LMS)
- Administration Rights
- Restricted access
- Provides data on:
  - Who is registered
  - Number of attempts – quiz and assessment
  - What pages are viewed
  - Etc.





- What does the APLMF look like:
- Testing  $NAWI \leq 300\text{kg}$ 
  - Based on OIML R76-1 2006 (E) Verification tests





- **Thank You For Your Attention**

**Any Questions**

