

**Sujet d'épreuves de la 48<sup>e</sup> Compétition  
Nationale des Métiers**

# **MÉTIER N°54 TECHNOLOGIES DES VEHICULES INDUSTRIELS**

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## EPREUVE E :

1 h

Poste

### Engine Expertise

#### Practical Situation:

A *D Narrow* cylinder head is installed in its inspection area.

The supervisor requests that you carry out an expert assessment of the cylinder head.

#### Tasks to perform:

- Disassemble the cylinder head
- Lap the valves
- Check the valve recession
- Check the valve stem-to-guide clearance
- Reassemble the cylinder head
- Validate the intervention through a written report

#### Your professional skills will be assessed in three phases:

1. During the execution of the various required operations
2. During the application of technical competencies
3. Upon completion of the work and delivery to the client

#### Expected Results:

- Proper organization and maintenance of the workstation
- Execution of preliminary inspections, commissioning, adjustments, functional tests, and clear technical explanations of measurement methods and expected results to the technician responsible for validating the conformity of specific measurements, as well as functional explanations communicated orally to the client
- Compliance with the specifications (procedure, tightening torques, safety instructions, etc.) and quality of the work performed
- Quality and completeness of the written report

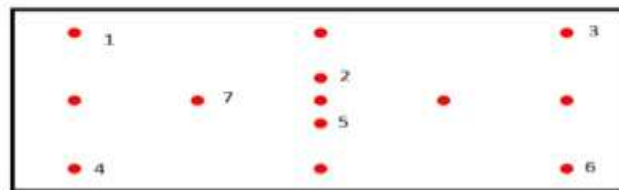
Candidate Number: .....

## COMPTE-RENDU DU CANDIDAT

### Measurement Readings:

You are required to record the readings taken from 1 to 7.

Points de contrôle de la planéité



### Valve Recession Measurements:

- Intake Valve 1: .....
- Exhaust Valve 1: .....
- Intake Valve 2: .....
- Exhaust Valve 2: .....

### Valve stem-to-guide clearance

- Intake Valve 1: .....
- Exhaust Valve 1: .....
- Intake Valve 2: .....
- Exhaust Valve 2: .....

### List of defective components identified after diagnosis:

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