

Information Sheet

Span Gas Verification

In parallel to the gas proficiency test at the ESA, Department I3 offers a verification of the participants' own span gases by comparison with the HLNUG reference gases. For propane, NO, and CO, this verification is free of charge once per component and span gas cylinder. For additional verifications (e.g. the same component in two different span gases or the testing of components other than those mentioned) a fee is payable in accordance with the HVwKostO. This fee (No. 196213) is currently 200 € per verification.

To have your span gases checked by us, please prepare the following:

1. **Affix stickers:**
Please affix one of the sticker labels supplied with this information sheet to each span gas cylinder you wish to have tested.
2. **Complete the registration form:**
Complete the registration form with the information from the associated certificates. You can find this form on our website pt.hlnug.de using the following link:
<https://tinyurl.com/yc4p7xce>
3. **Registration by e-mail:**
Send the completed registration form to pt@hlnug.hessen.de.
The registration form must be received by HLNUG no later than the Friday before the start of the gas proficiency test.
Span gases not registered in advance will be excluded from the span gas verification.
4. **Hand in the span gas in Kassel:**
Please hand in the span gas cylinders for verification analysis immediately after your arrival at the HLNUG in room 126/127 (1st floor, see notice on the door).
The latest time to hand in the span gas cylinders is Tuesday at 14.30.
If you are also taking part in the dust proficiency test, please hand in your span gases on Monday.

For technical reasons, only span gases with concentrations in the following ranges can be verified:

span gas	concentration in mg/m ³	concentration in ppm (µmol/mol)
nitrogen oxides (NO _x , given as NO)	147 to 402	110 to 300
propane (C ₃ H ₈ , in synth. air)	50 to 200	25 to 102
carbon monoxide (CO)	50 to 250	40 to 200

Please note that each verification measurement will consume approx. 50-100 l of span gas.

Participation is not mandatory and not a precondition for participation in the proficiency test.