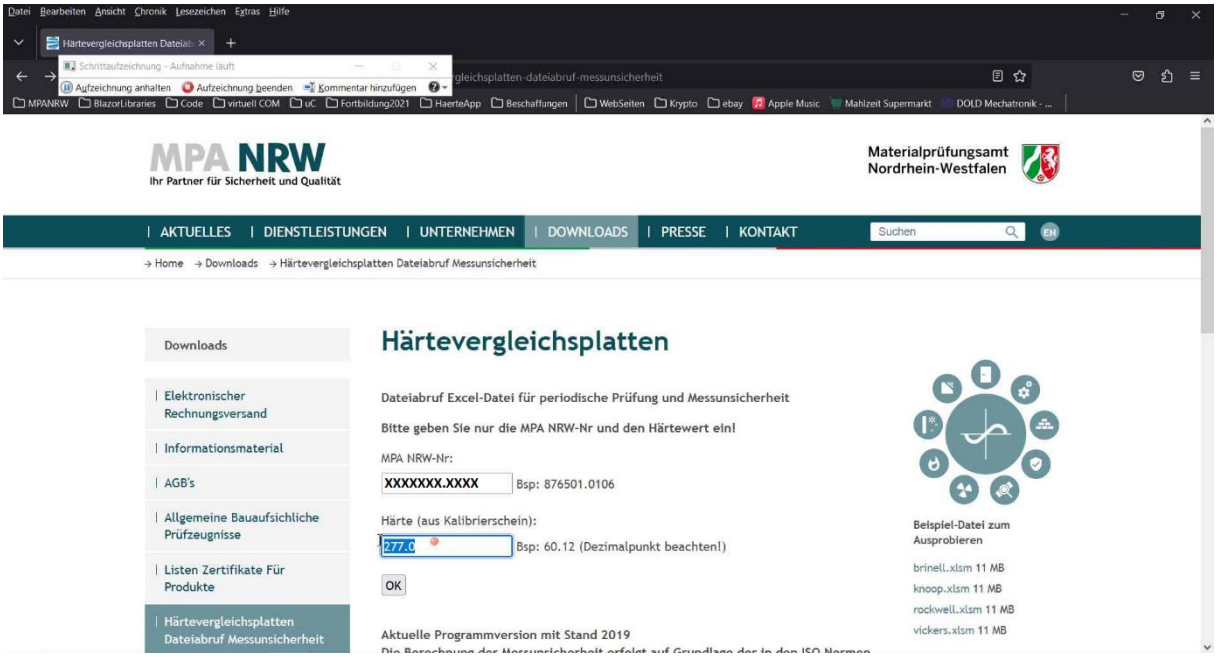
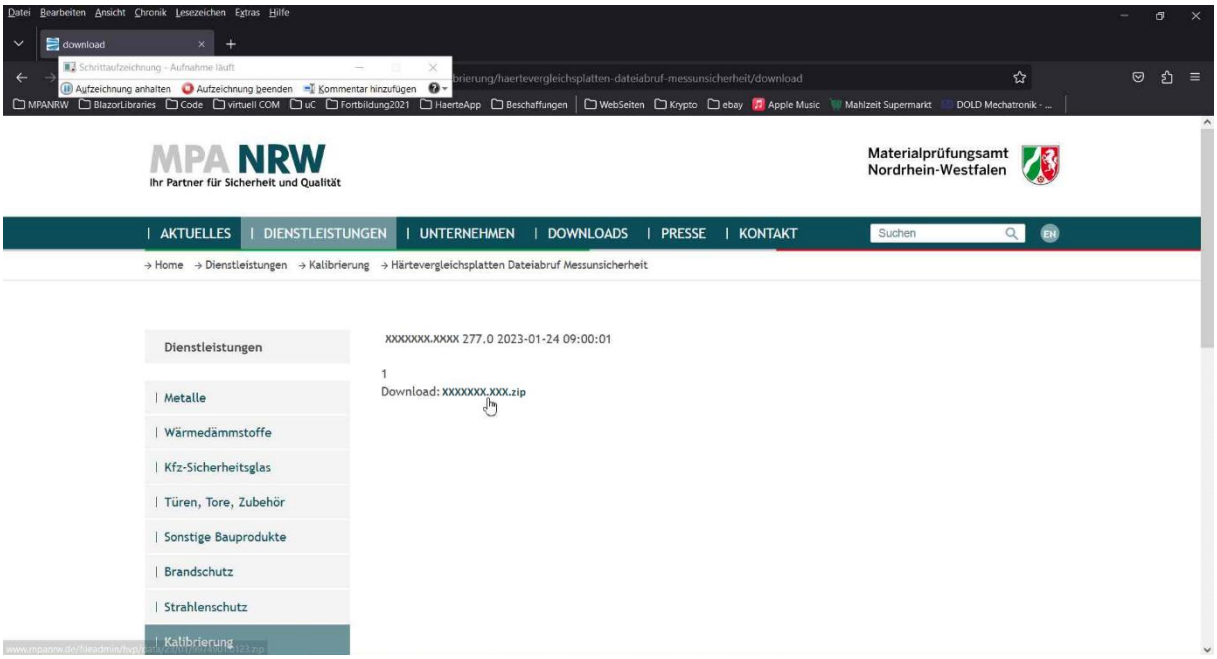
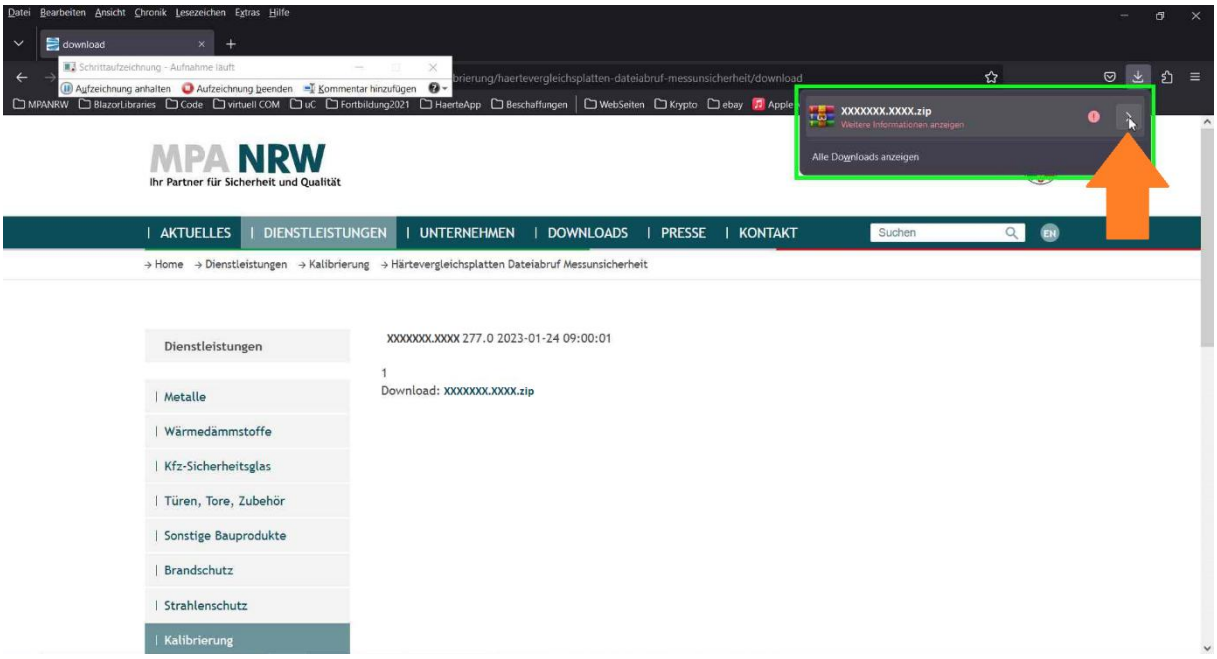
Step 1: In the **“MPA NRW Nr.”** field, you must enter the “**MPA NRW-Number**” engraved on the hardness reference block.
In the **“Hardness (from calibration certificate)”** field, you must enter the hardness value of the **first hardness test** (when more than one hardness test method on the hardness refence block was calibrated) for the corresponding hardness reference block from the calibration certificate. The first test is the one that was calibrated with the **highest test force**.
The hardness value is also engraved on the right side of the hardness reference block. You must use a **dot “.”** instead of a **comma “,”** as the decimal separator. (for the following example Mozilla Firefox was used)



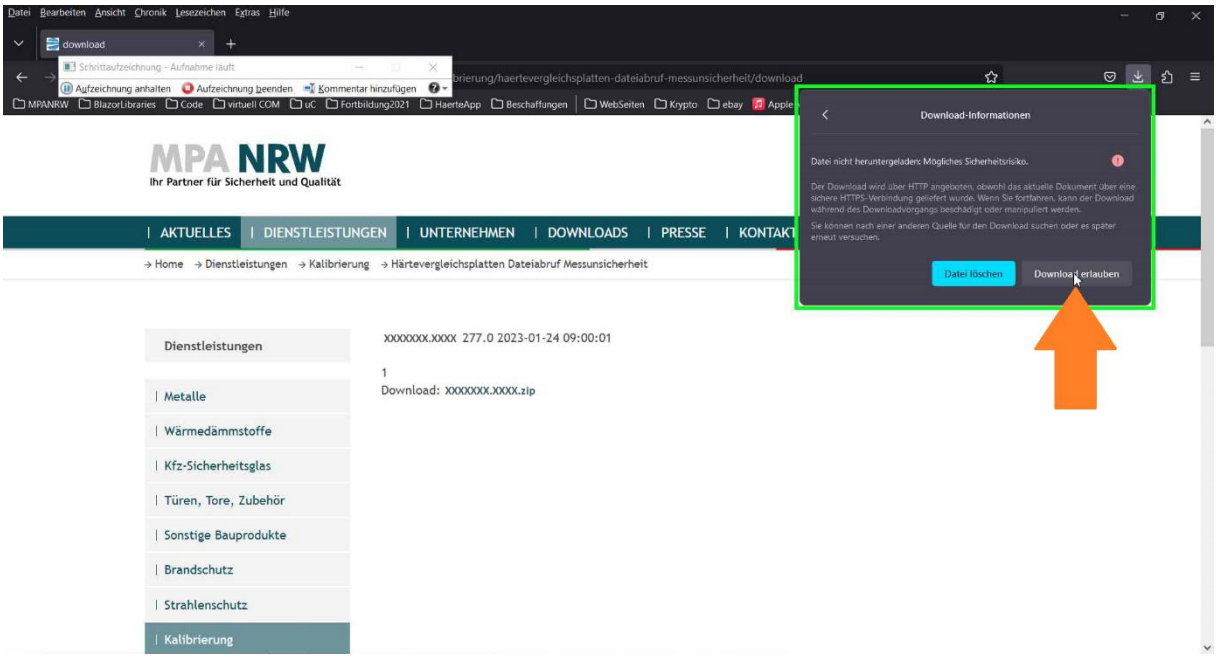
Step 2: Left-click on **“XXXXXXX.XXXX.zip (Link)”**



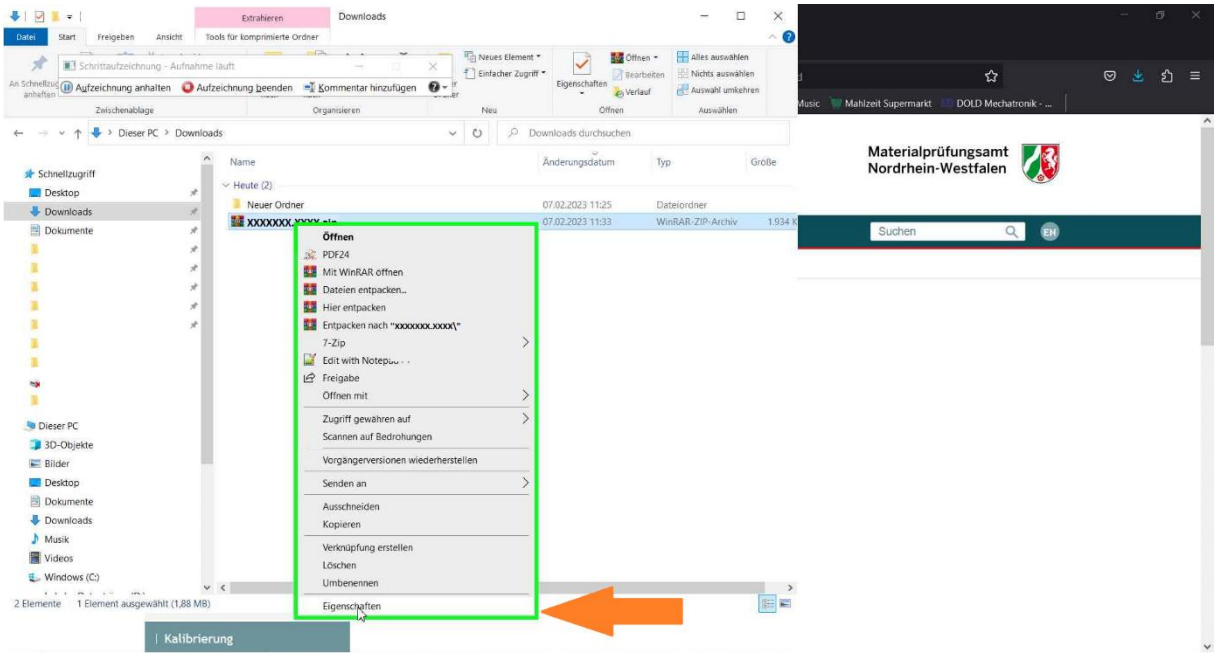
Step 3: Left-click on **“Open or delete file (button)”**



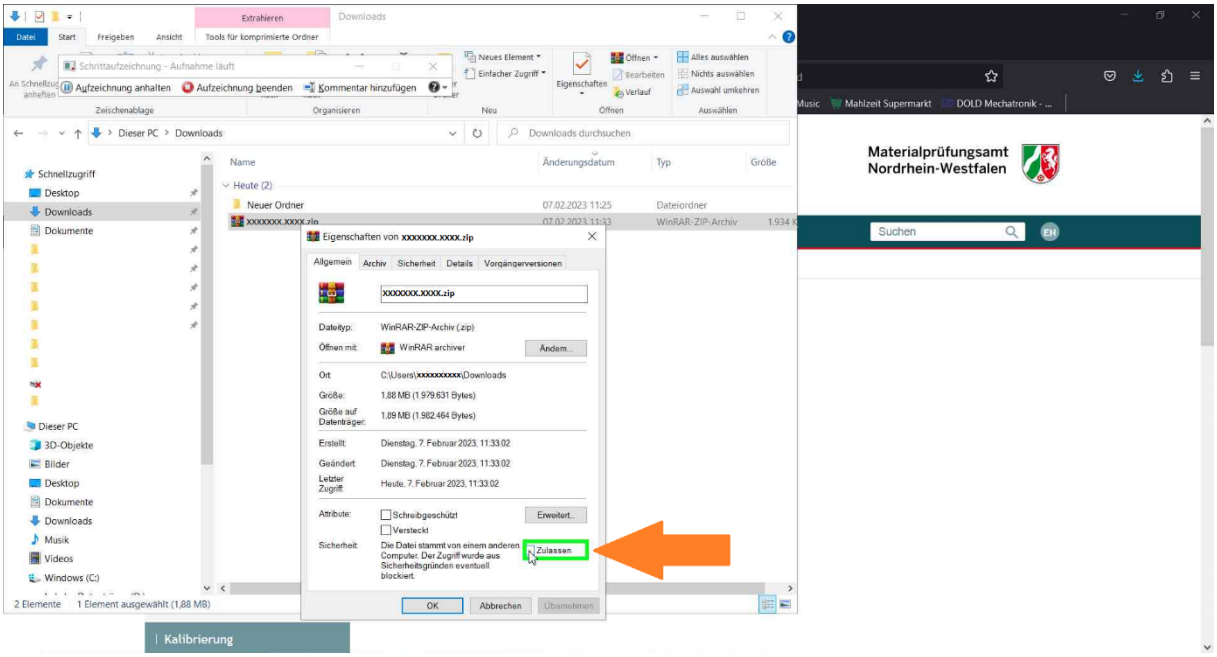
Step 4: Left-click on **“Allow download (button)”**



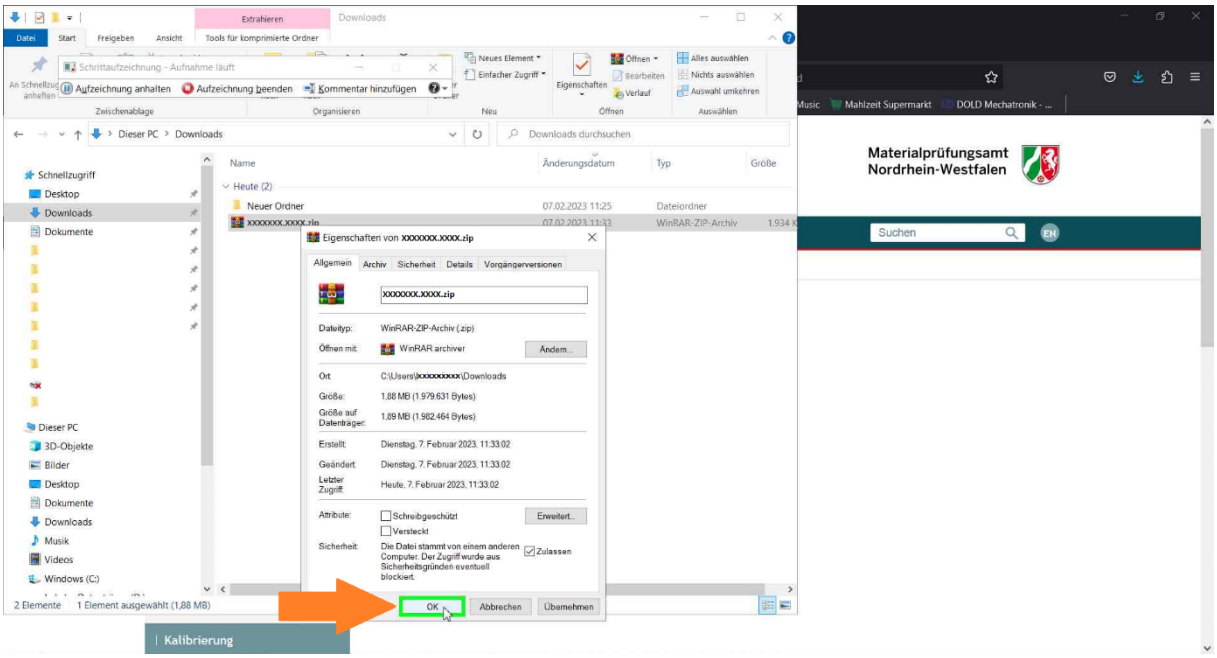
Step 5: Right-click on the downloaded file (**XXXXXXX.XXXX.zip**), then in the context menu left-click on **“Properties (menu item)”**



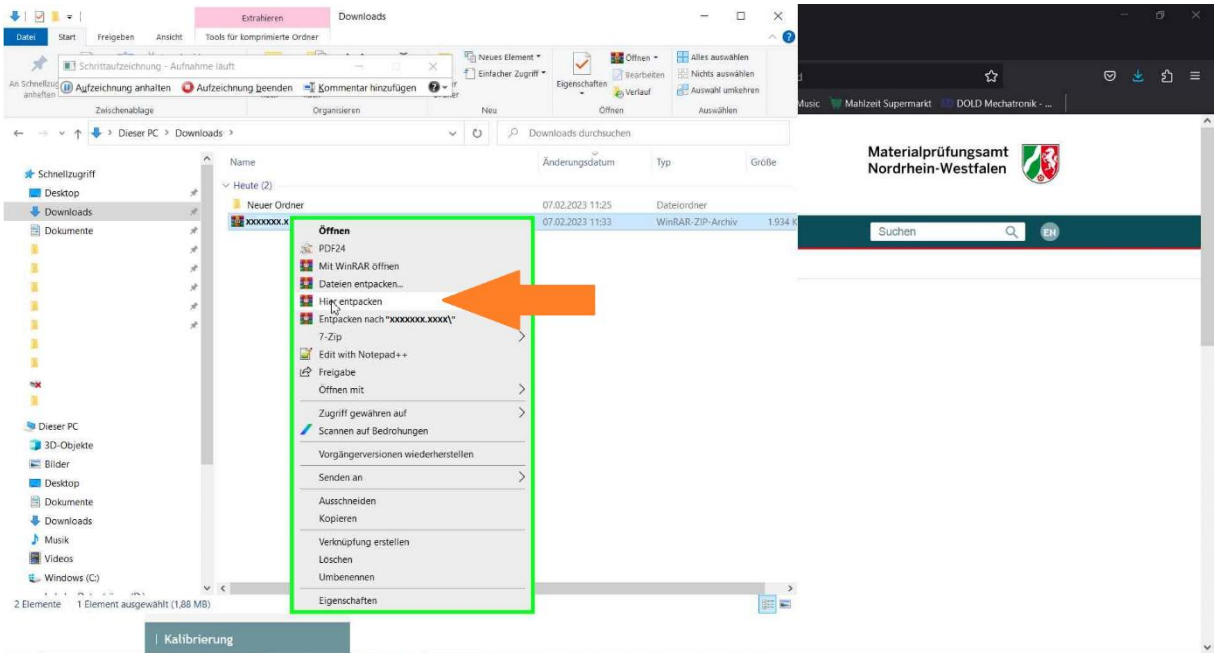
Step 6: Left-click on **“Allow/Enable (checkbox)”**



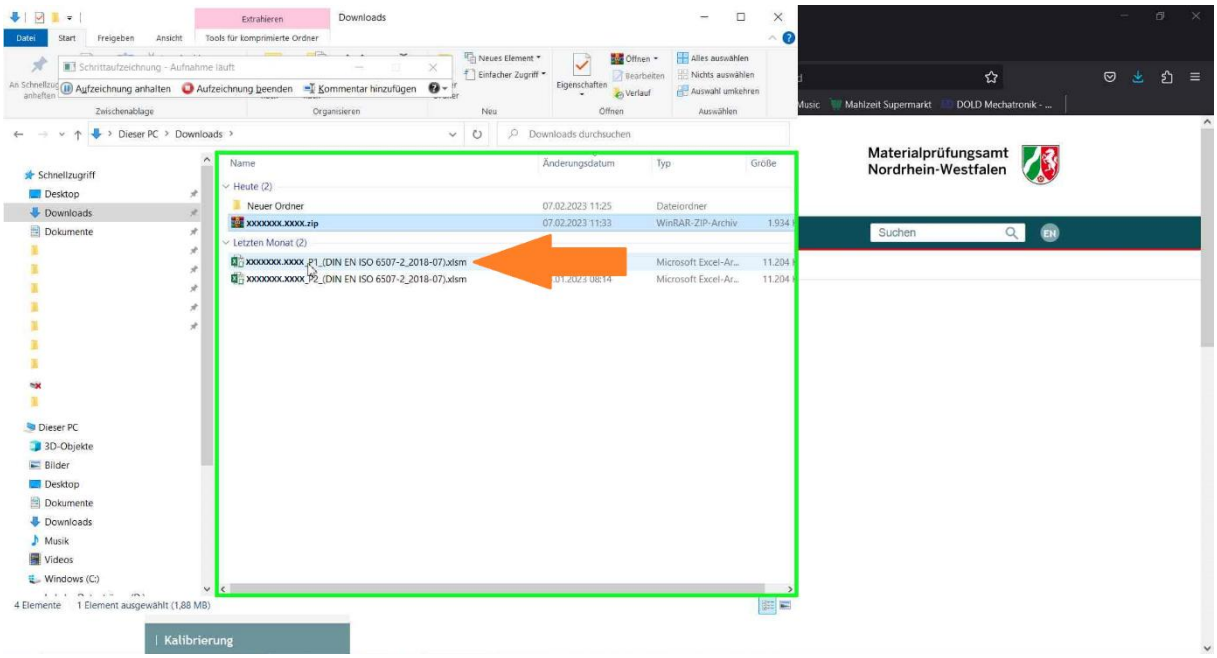
Step 7: Left-click on **“OK (button)”**



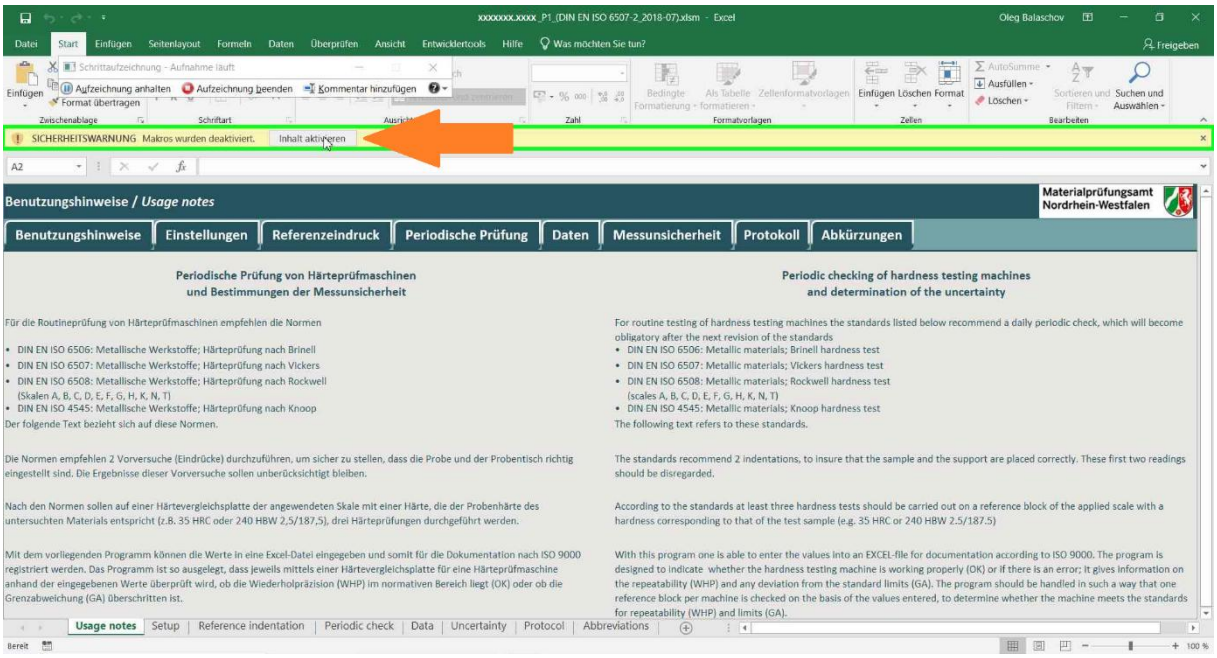
Step 8: Right-click on the downloaded file (**XXXXXXX.XXXX.zip**), then in the context menu left-click on **“Extract here (menu item)”**.



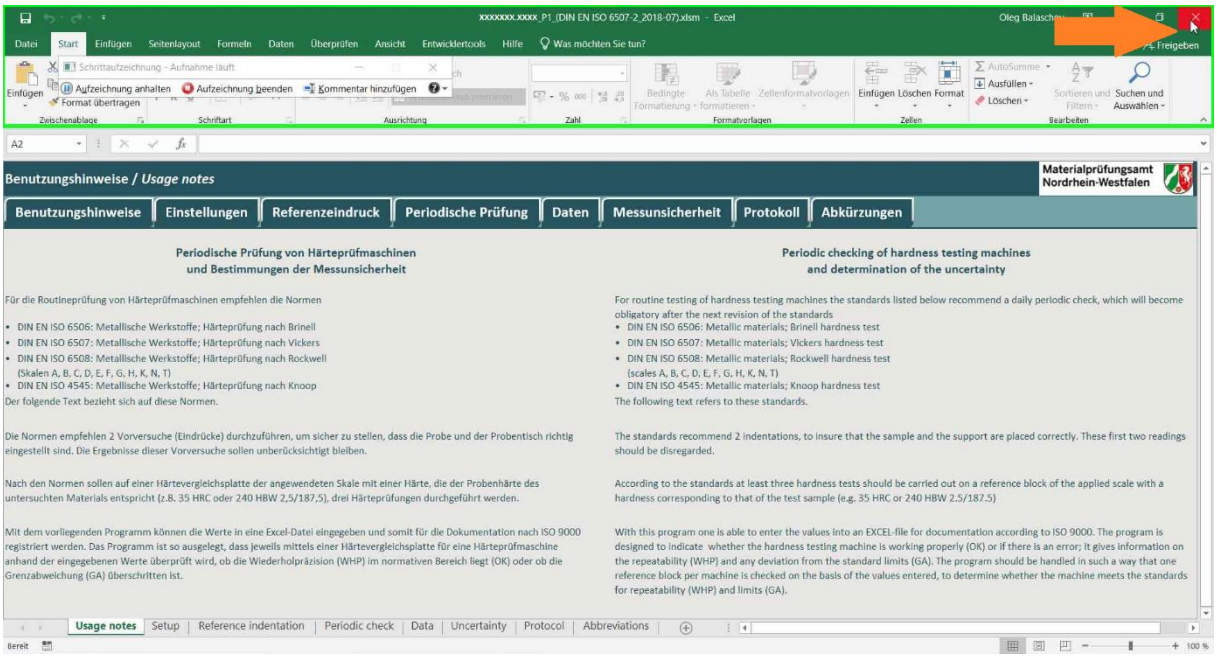
Step 9: Double-left-click on the extracted file in **“Downloads”**



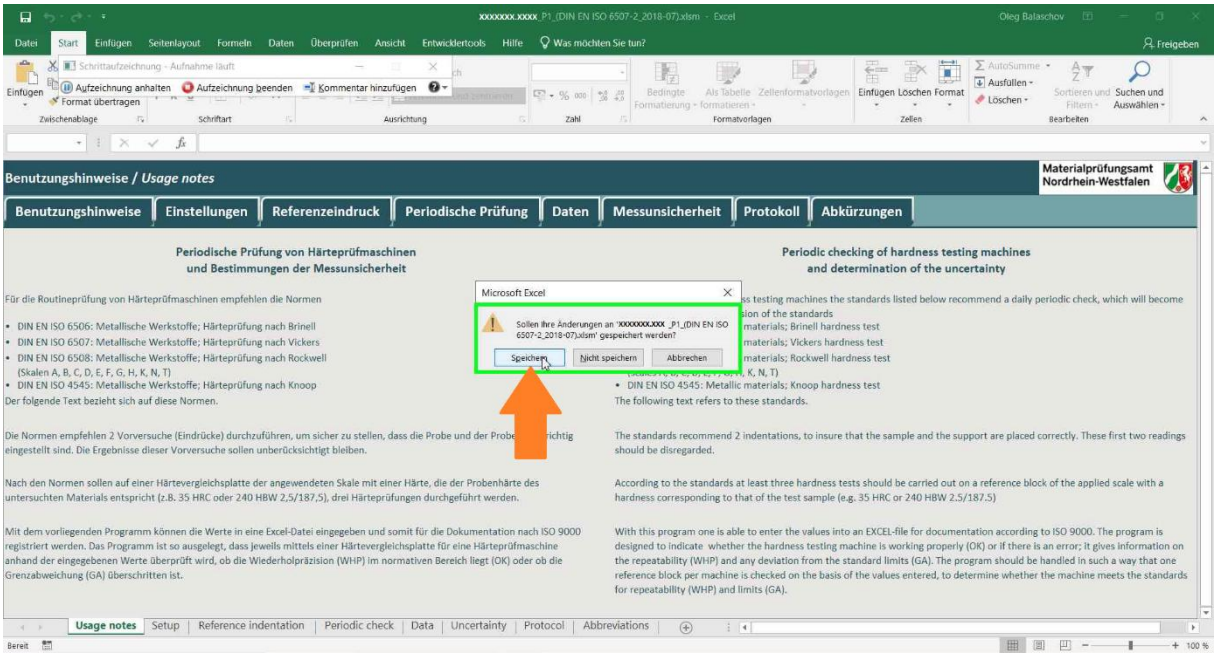
Step 10: Left-click on “Activate content (text)” in the “XXXXXXX.XXXX_P1_(DIN EN ISO 6507-2_2018-07).xlsm – Excel-file.”



Step 11: Left-clicks on **“Close (button)”**



Step 12: Left-click on **“Save (button)”**



Information on using the file:

Data entry is performed **only via the input form**, which you can activate using the **“Data Input”** button.

If the **1st measured value** has already been entered and you pressed **“OK”**, this value will be shown as hidden/disabled when reopening the input form.
It can no longer be changed. You can then enter additional measured values (**Test 2, Test 3, …**). If there are more than **5 measured values on the same day**, the next row will be used automatically.

Only the **name** of the person who performs the test remains valid for the 5 measured values (or for one day). The tester should always work via the input form. This is intended to ensure that the tester **cannot modify values that have already been entered**.

The **“Unlock”** button is intended for the **laboratory manager**. There you can set your own password instead of **“0000”**.
(**Warning:** Password recovery is not possible. The password must not be forgotten!)

If the tester makes a mistake, the laboratory manager can unlock the entire area and correct the error. At the next data entry via the input form, the unlocked area will be locked again.

On the next day, or after **5 complete measured values**, another tester can be entered.
The program compares the date. At least **1 measured value per day** is required. This is marked with a “*****”.

In addition, a **customer-specific column** is provided, which you may rename freely and individually. This column is located immediately after the **“Remarks”** column. You can rename it by using the **“Unlock”** button on the **“Periodic check”** worksheet.

For information only:

The **measurement uncertainty** is calculated for **one tester**.
If testers change frequently, the measurement uncertainty should be considered correspondingly higher.

The new **Vickers ISO standard** requires verification of the **optical measuring system** using the **reference indentation**. For this reason, a new worksheet **“Reference indentation”** has been added.