Not possible in reality, but easy with

TRAINDE UT

The first simulator for NDE inspectors

Efficiently training UT inspectors to perform manual UT inspections can be difficult… But smart tools can help!
TraiNDE UT is a virtual mock-up with a database of experimental and simulated signals that reproduce real inspection conditions for numerous applications. Discover the benefits of TraiNDE UT in your NDE program.

Practice and check your scanning speed

The training challenge

For manual UT testing, a correct inspection of a specimen requires scanning at an appropriate speed : fast enough to reduce inspection duration, but slow enough to analyse the signal. Some procedures or standards specify a maximum scanning speed.

Mastering scanning speed takes practice and experience for UT inspectors, and no solutions were provided for training and verifying it, even though this is implicitly required by standard. It is also difficult for trainers to verify or measure trainees' work and progress on that point !

The benefits of using TraiNDE UT

TraiNDE UT lets trainees practice zone coverage. In addition to displaying the actual scan path above of the virtual mock-up image, TraiNDE UT can also measure the average and maximum scanning speed performed by the operator – something that is of course impossible on a real block!

This test is performed in two stages:

- The trainer can set up a zone to cover and indicate the maximum allowed scanning speed.
- The trainee scans the complete zone (probe path is hidden) below the maximum speed.

At the end, the "score" is displayed and the probe path displayed, to evaluate inspector's performances. This score includes the average speed, the maximum speed and the percentage of zone covered at an appropriate speed.

This level of performance also accounts for the beam width, that depends on the UT probe used, and also accounts for the probe skew to make sure you scan with a good orientation.

A visual and smart tool is better than long explanations, practice with traiNDE UT and you will get it!

Find all our application cases on: http://trainde.extende.com