

ASNT CERTIFICATION SERVICES LLC ISQ O&G-UTSW-5.1 EXAM DISCONTINUITY PLOTTING INSTRUCTIONS

There will be a verification of each candidate's identification via a government-issued photo identification before the examination. This verification is required and if it is not satisfactorily met the candidate shall not be allowed to take the examination. Identification requirements can be found in O&G-UTSW-4 Ultrasonic Testing Shear Wave (UTSW) Pressure Equipment Weld Examination Protocol.

Safety instructions:

Site-specific safety instructions to be provided by the authorized examination proctor (AEP).

Instructions

1. Read these instructions for the discontinuity plotting section of the qualification before starting the exam. If there are any questions, the candidate shall resolve them with the AEP before starting the exam. The candidate shall have a **maximum of 1 hour** to complete the written discontinuity plotting exam section including completion of all paperwork. There will be a separate set of instructions, O&G-UTSW-5.2, and a separate amount of exam time allocated for the sample scanning exam section of the qualification.
2. During the exam, **only** the AEP may be asked questions. Specific questions about the exam content shall not be answered.
3. Candidates are required to prepare a 1:1 (1 to 1) scale drawing of a weldment with the details provided in the **Weld Details** section of their exam handouts. Once the weld drawing is prepared, the candidate is to plot the location of an ultrasonic reflector within the weld region drawn from the details provided in the **UT Indication** section of their exam handouts. Use weld dimension detail drawings below for reference. Graph paper shall be provided for the exam and shall not be allowed to leave the examination area. Pencils, protractors, and rulers will be provided by the proctor or candidates may use their own plotting tools.
4. When plotting the discontinuity, be sure to locate the transducer on the side that the UT indication is detected from.
5. On the plot, label the Upstream and Downstream sides and place a 1/16 in. (1.5 mm) dot at the exact discontinuity location. Dimensioning is not required to be detailed on the plot.
6. The candidate will be required to complete four (4) separate weld drawings with an associated discontinuity for each weld drawing. Grading will be based on the following criteria:
 - 6.1. Candidate's ability to draw an accurate scale drawing of the weldment from the dimensions provided.
 - 6.2. Candidate's ability to draw the location of the discontinuity in each weld from the discontinuity details provided.
 - 6.3. Candidate shall receive credit for the discontinuity plot drawings if the weld is drawn correctly and the discontinuity is located in the appropriate grading zone. Grading zone criteria for discontinuity locations shall be +/-0.125 in. (3.18 mm) for weld plots with wall thickness ≤ 1 in.

(25.4 mm) and ± 0.25 in. (6.35 mm) for weld plots >1 in. (25.4 mm) wall thickness.

- 6.4. Candidate shall successfully complete three (3) out of the four (4) required drawings to pass the discontinuity plotting portion of the exam.
7. Pagers, mobile/cellular phones, cameras, or any electronic devices capable of any type of communication or recording shall NOT be allowed in the examination area. Candidates needing to communicate with anyone are required to wait until after the exam is completed. For known emergency situations, please communicate with the test AEP to make arrangements prior to the start of the exam.
8. All paperwork shall be given to the AEP at the end of the exam. This includes all scratch notes or drawings made during the exam. **All paperwork shall be supplied by ASNT Certification Services LLC. No paperwork shall be allowed into, or out of, the examination area.**



