

Section 995

**PROCEDURE FOR CERTIFYING PROFILOGRAPHS/PROFILERS
AND QUALIFYING PROFILOGRAPH TECHNICIANS****995.01 General**

The Utah Department of Transportation (UDOT) requires qualification of profilograph/profiler operators working on UDOT projects and certification of equipment as part of the state quality assurance program. The Central Materials Division conducts an operator qualification and equipment certification course over a two-week period in the spring of each year. The Quality Assurance Engineer schedules the course and notifies all profilograph/profiler owners on the qualified list of the dates and location for the course. Contact the UDOT Quality Assurance Engineer for details of certification.

995.02 Equipment Certification

Equipment certification consists of three traces of a 1584-foot marked test section for profilographs and ten traces for profilers. UDOT will accept any machine that can produce a profilograph simulation and a Profile Index (PI) that meets the certification criteria.

Certification Criteria: The PI produced in the test section will be evaluated in three 0.10-mile segments. All three segments must fall within ± 1.5 standard deviations of the mean of all PI's reported for that segment. Pass or fail results cannot be reported until the two-week course is complete and data collected for all profilograph/profilers. Mechanical errors may be corrected onsite and the course rerun at the discretion of the operator. However, rerunning the course outside of the two-week schedule is at the discretion of the certifying engineer. Owners of passing profilographs/profilers will receive a certification sticker prescribing all required filter settings. Affix the stickers to the frame of the profilograph in a conspicuous location. Profiler operators will receive a letter that must remain with the vehicle.

Equipment certification must be renewed annually.

995.03 Profilograph Operator Qualification

Profilograph/profiler operators must be qualified to work on UDOT projects. Operator qualifications are valid for five years. Operators become qualified by showing proficiency with the Profilograph/profiler through a practical demonstration. The technician must setup and calibrate the machine, and produce a valid trace with the filter settings specified by the examiner. The technician will also complete a written exam with score of 70 percent correct.

Technicians may use traces produced for equipment certification as a qualifying trace. Record of qualified technicians may be found at the UDOT TTPQ website at:

<http://www.udot.utah.gov/mtl/QTAll.asp>