

Tescan Mira3 SEM Driver's Test

A user must demonstrate the ability to independently and safely perform *all necessary parts of this driver's test as required by the intended scope of his/her work* (irrelevant portions may be omitted).

Universal test:

The user demonstrates the ability to independently and safely load the test specimen into the SEM and acquire a high-quality SEM image of the test specimen (this includes being able to perform the necessary alignment steps and instrument adjustments as needed without any assistance, including proper adjustment of the working distance and use of SEM detectors indicated as being needed by the user). The user also demonstrates knowledge of the proper idle state of the microscope following use and unloading of the specimen.

EDS system operation test:

In addition to the requirements of the universal test, the user demonstrates the ability to perform EDS surveying, point analysis, and/or mapping (this includes being able to perform the necessary instrument adjustments as needed for optimal EDS operation and safe use of the EDS detector *without* any assistance). Following EDS system operation, the user returns the instrument to the proper idle state as specified by the universal test.

EBSD system operation test:

In addition to the requirements of the universal test, the user demonstrates the ability to perform EBSD analysis (this includes being able to perform the necessary instrument adjustments as needed for optimal EBSD operation and safe, correct use and configuration of the EBSD camera *without* any assistance). Following EBSD system operation, the user returns the instrument to the proper idle state as specified by the universal test.