



## Tundra Independence Test Checklist – CryoEM Merit Badges

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Supervising Staff: \_\_\_\_\_

Date: \_\_\_\_\_

Trainee: \_\_\_\_\_

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### Preparing the Tundra

- Identify the following:
    - Status of TEM.
    - Status of CLS.
    - Status of TD.
    - Status of the Tundra workstation.
  - Recover Microscope State in EPU.
  - Cool down TEM.
  - Insert carbon calibration grid.
  - Run user alignments.
  - Run optimize beam.
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### Preparing EPU.

- Select Experiment Type.
  - Atlas Optics Alignment.
  - Calibrate Image Shifts.
  - Calibrate IO.
  - Set up EPU session.
  - Unload the calibration grid.
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### Running EPU and the Tundra.

- Check the temperature state of TEM and CLS.
  - Insertion of sample.
  - EPU session setup.
  - Atlas Session Setup.
  - EPU Template Definition and Execution.
  - EPU Square and Hole Selection.
  - EPU Automated Acquisition.
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### Shut down procedures.

- End EPU session.
- Remove and save the sample from TEM.
- Cryo cycle TEM and CLS.