As part of the application for accreditation under the Calibration Program, the applicant must complete and return to A2LA this Selection List as described below:

1. Complete the table below. This table will be used to develop the Scope of Accreditation. A list of suggested measurement areas and parameters is found in section IV of in *[G118 – Guidance for Defining the Scope of Accreditation for Calibration Laboratories](https://a2la.qualtraxcloud.com/ShowDocument.aspx?ID=10225).* Model scopes can also be found in *G118.*
2. Identify the traceability chain for each parameter listed in the table.
3. If a given calibration is performed at a field location other than the laboratory’s permanent facility, please indicate this on the table.
4. If you are also seeking an optional accreditation for ANSI/NCSLI Z540.3-2006 see R205 APPENDIX B: Optional ANSI/NCSL Z540.3-2006 Requirements.

A2LA will then use this information to ensure that the appropriate technical expertise is correctly matched to the types of calibrations that your laboratory performs.

Identify each of the following on the table below (you may also submit your own list or table provided it includes all of the requested information):

1. Each parameter (e.g., DC Voltage, Gage Blocks, Torque Transducers, etc.);
2. The range of measurement for each parameter;
3. The calibration and measurement capability expressed as an uncertainty (hereafter, CMC) for each parameter and for each range for a given parameter determined in accordance with the JCGM 100:2008 “Guide to the Expression of Uncertainty in Measurement;”
4. The calibration measurement method or procedure, measurement standards and/or equipment used to make the measurements; and
5. Any calibrations that are performed at a location other than the laboratory’s permanent location;
6. Those calibrations for which you are seeking an optional accreditation for ANSI/NCSLI Z540.3-2006.

Please make additional copies of the table as needed.

|  |  |  |  |
| --- | --- | --- | --- |
| parameter | Range | CMC1 | Technique, reference standard, or equipment |
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1 Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMC’s represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of *k* = 2. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer’s device and to influences from the circumstances of the specific calibration.

References

1. ISO/IEC 17025:2017, “General Requirements for the Competence of Testing and Calibration Laboratories”.
2. JCGM 100:2008 “Guide to the Expression of Uncertainty in Measurement”, September 2008.
3. [A2LA,](https://a2la.qualtraxcloud.com/ShowDocument.aspx?ID=10221) *[R205 – Specific Requirements: Calibration Laboratory Accreditation Program](https://a2la.qualtraxcloud.com/ShowDocument.aspx?ID=10221)*.
4. [A2LA,](https://a2la.qualtraxcloud.com/ShowDocument.aspx?ID=10225) *[G118 – Guidance for Defining the Scope of Accreditation for Calibration Laboratories](https://a2la.qualtraxcloud.com/ShowDocument.aspx?ID=10225).*

# DOCUMENT REVISION HISTORY

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| --- | --- |
| **Date** | **Description** |
| 11/30/22 | * Removal of R104 references * Updated scope language to match ISO/IEC 17011Updated Qualtrax hyperlinks |