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This section combines the concepts of purchasing and subcontracting into one section.







Other than fulfilling the requirements of this section, the importance of selecting the right potential vendor should be of utmost importance. You are selecting a partner in your business and you will trust them to work with you in a professional and profitable manner. It is important that you select a company that can supply your requirements now and future needs;

6.6.1 The laboratory shall ensure that only suitable externally provided products and services **that affect laboratory activities** are used, when such products and services:













- 6.6.1 The laboratory shall ensure that only suitable externally provided products and services **that affect laboratory activities** are used, when such products and services:
- a) are intended for incorporation into the laboratory's own activities;
- b) are provided, in part or in full, directly to the customer by the laboratory, as received from the external provider; subcontracting
- c are used to support the operation of the laboratory

In regards to subcontracting, the procedure for reviewing requests, tenders, and contracts shall include the laboratory's information to the customer of externally provided activities, and the customer shall approve the involvement of external providers before starting laboratory activities.

7.7.1 c) where external providers are used, the requirements of <u>6.6</u> are applied and the laboratory advises the customer of the specific laboratory activities to be performed by the external provider and gains the customer's approval





NOTE Products can include, for example, measurement standards and equipment, auxiliary equipment, consumable materials and reference materials. Services can include, for example, calibration services, sampling services, testing services, facility and equipment maintenance services, proficiency testing services and assessment and auditing services

Support Functions













- **6.6.2** The laboratory shall **have a procedure** and **retain records** for:
- a) defining, reviewing and approving the laboratory's requirements for externally provided products and services;
- b) defining the criteria for evaluation, selection, monitoring of performance and **re-evaluation** of the external providers;



- **6.6.2** The laboratory shall **have a procedure** and **retain records** for:
- c) ensuring that externally provided products and services conform to the laboratory's established requirements, or when applicable, to the relevant requirements of this document, before they are used or directly provided to the customer;
- d) taking any actions arising from evaluations, monitoring of performance and re-evaluations of the external providers

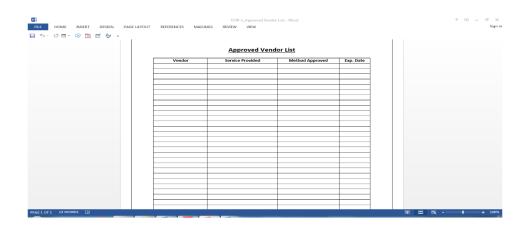
Got rid of the list as 2017 is more electronic driven - Added monitoring & re-evaluation

- From ISO/IEC 17025:2005
- **4.6.4** The laboratory shall evaluate suppliers of critical consumables, supplies and services which affect the quality of testing and calibration, and shall maintain records of these evaluations and **list those** approved
- The list "approved vendors and suppliers" can still be used to capture records however not required.

Labs has flexibility on showing a record that the requirements are being met;

| 7 | Excellence | Exceeds company's and customers' expectations, demonstrates extra effort |
|-----------|------------|--|
| 5 | Good | Meets the company's expectations |
| 3 | Acceptable | Meets company's minimum requirements |
| 1 | Poor | Does not meet company's and customers' minimum acceptable level |
| 2,4,6,8,9 | | Annectent grades |







Criteria for defining evaluation, selection, monitoring of performance and re-evaluation of the external providers may include:

- Accreditation to ISO.IEC 17025
- ISO/IEC 17011
- ISO/IEC 17043
- ISO 9001
- On time delivery
- Supplier Audits
- Testimonials and references these are valuable if you can check that the vendor is reliable and as they claim to be
- Years in business need to know that the organization is established and ready to service your requirements
- Accuracy requirements and capabilities: Scope of Accreditation "Range and CMC's

Ranges and CMC's for Calibration Laboratories

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| 11 of 13 Q | - + Q | Page view | A [®] Read aloud | │ | ıhlight v | se G | 5 B | ₽ | * ^ |
| | MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED | Т | | | | |
| | Balances ^O | 1 g to 10 kg | 260 mg | NIST Handbook 105-1 (Class F) Test Weights P23-00 | | | | | |
| | Mechanical | | | | | | | | |
| | MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED | | | | | |
| | Pressure FO | 5 psig to 300 psig | 0.33 psi | Fluke 702 with module 700PO7, P25-00 | | | | | |
| | | 100 psi to 10 000 psi | 0.82 % of reading | Deadweight Pressure System (Mansfield & Green T-100) P25-00 | | | | | |
| | Torque Wrench FO | 5 lbf•in to 25 lbf•in | 1.3 lbf•in | Mark-10 TT02, P24-00 | | | | | |
| | | 20 lbf•in to 100 lbf•in 100 lbf•in to 200 lbf•in | 1.8 lbf•in 3.9 lbf•in | Mark-10 TT03, P24-00 CDI 10002-I-DTT | | | | | |
| | | 200 lbf•in to 600 lbf•in | 5 lbf•in | P24-00 | | | | | |
| | | 600 lbf•in to 1 000 lbf•in 60 lbf•ft to 300 lbf•ft | 6 lbf•in 2 lbf•ft | CDI 6004-F-DTT | | | | | |
| | | 300 lbf•ft to 600 lbf•ft | 3.6 lbf•ft | P24-00 | | | | | |
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Ranges and CMC's for Calibration Laboratories

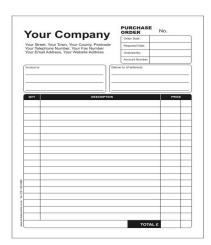


- **6.6.3** The laboratory shall **communicate its** requirements to external providers for:
- a) the products and services to be provided;
- b) the acceptance criteria;
- c) competence, including any required qualification of personnel;
- d) activities that the laboratory, or its customer, intends to perform at the external provider's premises;

The laboratory shall communicate gives much more flexibility than requiring purchasing documents for items affecting the quality of laboratory output which shall contain data describing the services and supplies ordered.



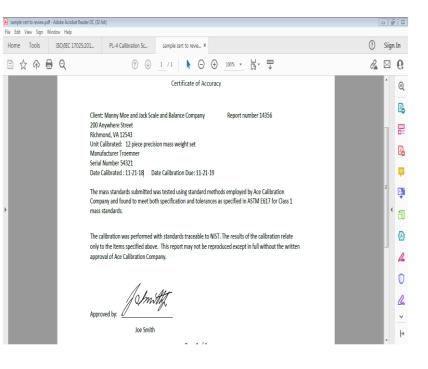


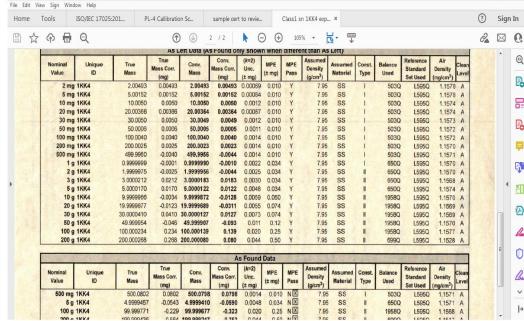




Assure enough detail is conveyed to your supplier and examine upon receipt to assure you got what should have been clearly specified.

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Thank You



This time is allocated for questions. You should have a space provided for submitting questions.

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If a question is not answered, please submit directly to webinar@pjlabs.com



Save the Date

Overview of Key Requirements of ISO/IEC 17020 :2012 "Inspection"



