

Certified LabVIEW Developer Recertification (CLD-R) Exam

LabVIEW Certification Overview

The National Instruments LabVIEW Certification Program consists of the following three certification levels:

- Certified LabVIEW Associate Developer (CLAD)
- Certified LabVIEW Developer (CLD)
- Certified LabVIEW Architect (CLA)

The CLAD certification is a prerequisite to taking the CLD exam. The CLD certification is a prerequisite to taking the CLA exam. There are no exceptions to this requirement for each exam.

Please refer to the following links to exam preparation guides for each certification level to see the exam objectives and topics.

- [CLAD Exam Preparation Guide](#)
- [CLD Exam Preparation Guide](#)
- [CLA Exam Preparation Guide](#)

CLD Recertification Policy and Process

Recertification is important for certified professionals and their employers: it demonstrates up-to-date expertise with the software as new features are released and maintains the certified professional's presence as a product expert in the technical community.

The CLD certification is good for 2 years from the date of certification issue, which is approximately equal to the frequency with which National Instruments makes major revisions to its software.

To keep certifications current, the certified individual should advance to take the next higher certification level (CLA) or recertify at the current level. National Instruments sends a recertification reminder prior to your expiration date.

For more policy detail, please visit the [National Instruments Recertification](#) web page

CLD recertification exam process:

The CLD-R exam is offered at the following test centers:

- Pearson VUE testing center (Americas/Europe)
- NI branch office (Asia / Pacific)

For Pearson Vue testing centers (Americas/Europe):

- Obtain an authorization code for recertification exam from National Instruments
 - By email: certification@ni.com
- Register for recertification exam with Pearson VUE at <http://www.pearsonvue.com/ni/> using your authorization code
- Take your recertification exam at your nearest Pearson VUE location

For NI Branch offices (Asia / Pacific):

- Contact your local National Instruments office to register/schedule your recertification exam
- Take your recertification exam as scheduled

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Exam Overview

CLD-R exam details:

- Product version: LabVIEW 2009
- Format: Multiple choice, 40 questions
- Duration: 1 hour
- Passing grade: 70%

The exam validates problem solving skills, knowledge and experience in the development of measurement and automation applications using LabVIEW. The exam does not involve any software development or any hardware related questions.

The use of resources available in LabVIEW, such as the *LabVIEW Help* and examples are not allowed during the exam.

For general questions or comments, email certification@ni.com

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Exam Topics

The topics for the CLD-R exam include all the topics listed in the CLAD and CLD preparation guides.

Because of the nature of the CLD exam, some important CLD topics are not thoroughly tested in the CLD exam. The intent of CLD-R exam is to emphasize those topics and also test on some of the newer features from the last two releases of LabVIEW.

The CLDR exam tests your experience as a CLD and ability to evaluate a short application scenario and select the most appropriate solution or answer.

The following table lists the CLD-R topics and the approximate coverage of the topics on the exam:

| # | Exam Topic | Percent Coverage |
|-----|------------------------|------------------|
| 1. | Architecture / Project | 10.0% |
| 2. | Events | 10.0% |
| 3. | Error handling | 10.0% |
| 4. | Debugging | 12.5% |
| 5. | Performance | 10.0% |
| 6. | Timing | 10.0% |
| 7. | Recursion / Reentrancy | 5.0% |
| 8. | Testing | 5.0% |
| 9. | Calling external code | 2.5% |
| 10. | Shared variables | 2.5% |
| 11. | VI server | 10.0% |
| 12. | File IO | 7.5% |
| 13. | New features | 5.0% |

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Exam Topics (Overview)

| Topic | Subtopic |
|-----------------------------|---|
| 1. Architecture/Project | a. Project hierarchy and libraries b. Design pattern / architecture selection c. Data structures, data communications, and synchronization methods |
| 2. Events | a. User interface events b. Dynamic and user defined events |
| 3. Error handling | a. Error handling b. Error reporting |
| 4. Debugging | a. Debugging tools, techniques and practices b. Problem identification and rectification |
| 5. Performance | a. Tools and techniques b. Performance identification and improvement |
| 6. Timing | a. Timing functions and mechanisms b. Timed structures and functions |
| 7. Reentrancy and Recursion | a. Reentrant execution types b. Recursion applications |
| 8. Testing | a. Functional testing b. Performance testing c. Stress testing d. Usability testing e. Regression testing f. Configuration testing g. Integration testing h. Error testing |
| 9. External code | a. Interfacing with external code i. DLLs ii. CINS |
| 10. Shared variables | a. Single process shared variables |
| 11. VI Server | a. Class hierarchy, references, property nodes, and invoke nodes b. Dynamically loading and running VIs c. Recursion |
| 12. File IO | a. Types and applications of File IO |
| 13. New features | a. New features in LabVIEW 8.6, 2009 |

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CLD Exam Preparation Resources

Use the following resources for additional exam preparation:

- LabVIEW Core 1 and Core 2
- LabVIEW Core 3

These courses are offered as instructor-led courses, held either at a regional training facility or online, and as self-paced training using multimedia CDs or course manuals. [Learn more about these courses.](#)

- [National Instruments Developer Zone](#)
- [National Instruments LabVIEW Zone](#)
- [National Instruments LabVIEW Support](#)
- [LabVIEW Manuals Online](#) (current_manuals)
- [LabVIEW 8.6 Help](#)
- [LabVIEW 2009 Help](#)
- [CLD-R Sample Exam](#)