# Curriculum-Foundation 2021: Release-Candidate 4

The next release of the Foundation-Level curriculum is scheduled for April 1st, 2021. According to the release process, you (as trainer or training provider) are involved in reviews and request-for-comments. Therefore, we like to provide you with the first release candidate and ask for feedback until November 6th, 2020.

This version of the curriculum is the **second release-candidate** and might contain errors, omissions, or typos. For all errors you find, please open issues on our public issue tracker:

<https://github.com/isaqb-org/curriculum-foundation/issues/>

## Brief Summary of Changes between V5.x and 2021.1

* Keep the overall structure of the curriculum
* New versioning schema, upcoming version will be 2021.1-EN and 2021.1-DE
* Keep LG structure + numbering
* Several LGs received *major updates:*
  + Update goals of software architecture (LG 1-2)
  + Update influencing factors (LG 2-3)
  + Update patterns (LG 2-5)
  + Update design principles (LG 2-6)
* Several learning goals now contain brief explanation (e.g. LG 2-5 on patterns) to clarify their content
* Update gendering (DE version only)
* Fix numerous bugs and inconsistencies, many slight wording changes
* New LG 1-11 on "challenges of distributed systems (R3)"

More than 140 Github-issues were raised and handled in more than 160 commits for the upcoming release.

## Change log for RC3 and RC4 Nov 6th, 2020 (curated)

For the complete changelog, see the git commit history. The numbers (like #196) refer to the Github-issues. RC3 and RC4 fixes a few typos and weaknesses/omissions in formulations of LGs.

RC4 will be the last release candidate prior to finalization

**Substantial changes:**

* LG 2-5 removed “Self-contained systems” from microservice pattern, as these two are not the same thing, #204
* LG 2-6 fixed translation of “expect errors”, #202
* LG 2-6 rephrased “conceptual integrity”, #202
* LG 2-7 added “messaging/events” to list of coupling types, #201

## Change log for RC2 Oct 19th, 2020 (curated)

For the complete changelog, see the git commit history. The numbers (like #196) refer to the Github-issues. RC2 fixes a few typos and several issues.

**Substantial changes:**

* LG 2-6 fixed several wrong relevance-levels on sub-learning-goal headings
* LG 2-7 renamed LG to “managing dependencies” (instead of “planning dependencies”, #195)
* LG 3-6 demoted “documenting cross-cutting concepts” to R2 (#186)
* LG 3-8 promoted “documenting architecture-decisions” to R1, added ADR (#187)

Trivial changes:

* LG 1-2 unified wording, to “goals and benefits” (#192)
* LG 1-5 more consistent wording (#196)
* added some references to section 1 (Fundamentals)
* LG 2-1 fixed typo
* LG 2-5 removed duplicate sentence (#194)
* LG 2-7 rephrased coupling-types (#197)
* LG 3-3 added reference to ArchiMate (#146, #147, #191)
* Several new entries have been added to the references-section at the end, and hyperlinked from within the document

## Change log for RC1 Oct 6th, 2020 (curated)

* Prerequisites have been clarified, "object-oriented language" has been replaced by "higher-level language"
* LG 1-2 received additional sub-goals and explanation
* LG 1-11 has been added (R3), with some characteristics and challenges of distributed systems
* LG 2-1 mentions additional architecture "methods" (Evolutionary Architecture, Global-Analysis), all R3. Better indication which method has which exam relevance
* LG 2-3 major overhaul: new structure of LG, new and explicit collection of influencing factors
* LG 2-5 completely restructured list of patterns. A few R1, many optional R3. R1 now covers Microservices and Dependency Injection (yes, after lengthy discussions we decided to add it as a fundamental pattern here. Please note: The list of optional R3 patterns give trainers the opportunity to add specific content as needed.
* LG 2-6 completely restructured ist of design principles. We consider this topic to be one of the most important in architecture education and we collected the fundamental principles in a modular structure. Trainers most likely will have to adapt training material.
* LG 3-2 improved wording, explained the need for specific adaption of documentation
* LG 3-3 demoted a few diagram types to R3, ArchiMate has been added to the list
* LG 3-10 RM/ODP has been removed, some references added
* Additional references have been added, some references updated to newer editions or versions
* Inconsistencies in translation between EN and DE have been sorted out
* Numerous typos and hyperlinks have been fixed
* Links to original document sources, issue-tracker and downloads have been added to introduction
* Styling of PDF documents has been improved
* Improved the build and release chain

## Known issues

* In all sections "Important terms" at the beginning of each curriculum section, numerous terms are missing the hyperlinks into the iSAQB glossary.
* On MacOS, the hyperlinks to the iSAQB glossary within PDF documents fail in the standard "Preview" app. Firefox and AcrobatReader work fine. See <https://github.com/isaqb-org/curriculum-foundation/issues/189>
* For an overview of past and ongoing work, see our public Kanban-board on <https://github.com/isaqb-org/curriculum-foundation/projects/3>.

## Steps to release

We adhere to the following release-process:

|  |  |  |
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| **Step Nr.** | **Date** | **Content** |
| 1+2 | until Sept 30th, 2020 | Internal discussion and collection of requirements/suggestions for new version. |
| 3+4 | planned: up to Sept 30th, 2020  real: up to Oct 6th, 2020 | See change log above and the following resources:   * v2021 [Kanban](https://github.com/isaqb-org/curriculum-foundation/projects/3) board on Github * v2021 issues on [Github (#48 up to #168)](https://github.com/isaqb-org/curriculum-foundation/issues?page=1&q=is%3Aissue) * Discussion on "[2021 - Patterns in the Curriculum (LG 2-5)](file:///\\pages\viewpage.action%3fpageId=47355652)" * Discussion on   "[2021 Design-Principles in the Curriculum (LG 2-6)](file:///\\pages\viewpage.action%3fpageId=47355991)"   * Discussion on   "[2021 Factors influencing SWA in the Curriculum (LG 2-3)](file:///\\pages\viewpage.action%3fpageId=47356315)" |
| 5 | starting Oct 6th, 2020 until Nov 6th, 2020 | release-candidate 2021.1.rc1-EN-20201006 and 2020.1.rc1-DE-20201006 given to training providers for review and request-for-comments.  **Deadline for comments and suggestions is November 6th, 2020.**  We urge you to provide suggestions via Github-Issues (one request per issue), so the Foundation Level Working Group can discuss and comment them individually! |
| 5 | ongoing | FLWG might issue new release candidates to fix severe issues. |
| 6 | until Dec 1st, 2020 | Accepted changes incorporated into the curriculum. |
| 7-9 | until Jan 15th, 2021 | FLWG updates examination questions according to new curriculum version. |
| 10-11 | until March 20th, 2021 | iSAQB GmbH has the new version translated to all required languages (ES, FR, RU etc.) and the translations reviewed. |
| 12 | April 1st, 2021 | Official release: **Usage of new version is mandatory in all trainings given in DE or EN.**   * All trainers need to have their complete training material updated to this release * All examination providers EP need to have completed their transition to new questions. Use of old version is NOT permitted from hereon. |