

Pega LSA Architecture Exam - Version 8.3

Exam Blueprint

The Pega Certified Lead System Architect (PCLSA) certification program is intended for Pega Certified Senior System Architects (PCSSAs) with at least 12+ months of field experience. The Pega Architecture exam is the first exam in the PCLSA certification process.

The LSA Pega Architecture Version 8 exam focuses on design and architecture of Pega applications. The LSA role is broad in scope: The exam covers material throughout the entire SA, SSA, advanced topics, & LSA course curriculum. The exam includes scenario questions, multiple choice questions and drag/drop items. If multiple answers are required, the text states how many answers are needed. PCLSA certification requires passing the Pega Architecture Exam and an Application design/build.

Pega Senior Certified System Architect (P/CSSA) certification in any version is required to start the PCLSA certification program.

EXAM CODE: PEGAPCLSA80V1_2020

RECOMMENDED PREREQUISITES:

- [PCLSA Readiness Assessment](#)
- *Lead System Architect* course in [legacy Pega Academy application](#)

LANGUAGES: English

NUMBER OF QUESTIONS: 60 | 2 hours | **PASSING SCORE:** 65%

EXAM TOPICS:

Enterprise Design (17%)

- How Pega fits into the technical landscape of the organization
 - Apply design thinking and approach for architecting Pega for the enterprise
 - Determine application infrastructure requirements
 - Identify when to incorporate other Pega products
 - Architect an environment with high availability
 - Diagnose cause of an issue happening only in one environment
 - Diagnose cause of an issue after weeks of application running
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Case Design (13%)

- Design case hierarchy and relationships between cases
- Evaluate when to use subcase and subflow processing
- Define case locking strategy
- Design for case level and assignment level SLAs
- Recommend appropriate data propagation approach vs. shared data
- Design Get Next Work algorithm
- Evaluate when to use push routing and pull routing
- Evaluate when to use activities, APIs, and functions

Data Model Design (8%)

- Design and extend the application data model
- Design data reuse layers and identify relevant records
- Define mapping between source systems and Pega

User Experience Design (8%)

- Provide thought leadership in the area of UX
- Determine where UX fits into the design architecture
- Identify application functionality that can impact the user experience
- Design the user experience to optimize performance
- Design for mobile and offline usage

Security (13%)

- Determine the best authentication strategy
- Determine the appropriate authorization model for a given use case
- Perform a security assessment; identify and fix issues
- Use security best practices
- Identify security risks

Reporting (8%)

- Design appropriate reporting strategy based on business need
- Identify need for custom SQL functions
- Design reports for performance
- Identify/solve performance problems in reports

Background Processing (10%)

- Determine appropriate background processing design option
- Identify proper techniques to handle background processing
- Design for separate nodes; asynchronous processing
- Optimize standard agents

Asset Design and Reuse (8%)

- Specialize an application by overriding rulesets in the built-on application
- Assess need for extending an existing application
- Identify opportunities for re-using assets
- Refactor an application built in Pega Express

Deployment and Testing (15%)

- Apply Production Deployment best practices, including DevOps
 - Design and automate a Testing strategy
 - Assess and monitor application quality
 - Establish quality measures and expectations on your team
 - Customize the rule check-in approval process
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