



## Pega CSA & CSSA 8.7

( Pega System & Senior System Architect Certification | PEGAPCSA87V1 / PEGAPCSSA87V1 )

### Course Overview:

This certifications course is intended for System Architects and Application Developers who are directly involved in the design and construction of applications built on Pega.

The **Pega Certified System Architect (PCSA)** certification is for developers and technical staff members who want to learn how to develop Pega applications & **Pega Certified Senior System Architect (PCSSA)** certification validates the ability to use Pega to design and build for reusability across multiple lines of business. It includes applying best practices, understanding application debugging and performance tuning, and addressing security/access requirements in an application. The PCSSA version 8 exam includes scenario questions, multiple choice questions and drag/drop items.

### What you'll learn:

By the end of this course, you will be able to successfully:

- To attain the Pega PCSA & PCSSA certification.
- To get familiar with the Pega platform and application building.
- To work with the various rules that are used to build the application.

### Material Provision for this course:

- Training recordings will be shared

### Course Duration:

- 55 to 60 Hours Approx

## Course Topics:

01	Introduction to OOP and BPM	<ul style="list-style-type: none"> <li>● Introduction to Object Oriented programming</li> <li>● OOP Concepts</li> <li>● Introduction to Process, Business Process, BPM</li> <li>● Benefits of BPM Solutions</li> <li>● Various BPM tools in the Market</li> <li>● Introduction to Case Management</li> </ul>
02	Introduction to Pega	<ul style="list-style-type: none"> <li>● What is Pega ?</li> <li>● Evolution of Pega Platform</li> <li>● Pega Footprint in various domains</li> <li>● Introduction to Pega Infinity</li> <li>● Pega Capabilities</li> <li>● Pega Installation</li> <li>● Introduction to Pega Studios</li> <li>● Roles on a Pega project</li> </ul>
03	Creating a Pega Application	<ul style="list-style-type: none"> <li>● Exploring the Pega Studios</li> <li>● Introduction to the Dev Studio</li> <li>● Creating a Pega application</li> <li>● Introduction to creating a Framework application</li> <li>● Working on creating an Implementation Application</li> <li>● Difference between Framework &amp; Implementation applications</li> </ul>
04	Introduction to Case Design	<ul style="list-style-type: none"> <li>● Introduction to Case types</li> <li>● What is a Case life cycle</li> <li>● Design a case type</li> <li>● User context</li> <li>● Updating Case status</li> <li>● How to add instructions to assignments</li> </ul>
05	Controlling Case workflow	<ul style="list-style-type: none"> <li>● Parallel processing</li> <li>● How to perform processes in parallel</li> <li>● Alternate Paths</li> <li>● Optional actions</li> <li>● Adding optional actions to a case</li> <li>● Skipping processes and stages</li> <li>● How to skip a process or stage in a workflow</li> </ul>

06	Smart Shapes, Flow Action, Sections	<ul style="list-style-type: none"> <li>● Introduction to Smart Shapes</li> <li>● Process Flow Rule</li> <li>● Flow Action Rule</li> <li>● Introduction to Section.</li> <li>● Layouts &amp; Controls in Section</li> <li>● Creating Work Object &amp; Tracking WO</li> <li>● Where am I</li> </ul>
07	Flow Action Processing, Operator Profile	<ul style="list-style-type: none"> <li>● Introduction to flow action pre- and post-processing</li> <li>● Pre- and post-processing in flow actions</li> <li>● Configuring pre- and post-processing for flow actions</li> <li>● Operator Profile</li> <li>● Application and Access groups</li> </ul>
08	Data Elements , Data Types	<ul style="list-style-type: none"> <li>● Introduction to adding fields to a case type</li> <li>● Data elements in Pega applications</li> <li>● Page Mode &amp; Value Mode properties</li> <li>● How to manage properties</li> <li>● How to reference a property</li> <li>● Defining properties</li> <li>● User views &amp; Configuration of user Views</li> </ul>
09	Data Modelling, Clip board Structure	<ul style="list-style-type: none"> <li>● Introduction to data in memory</li> <li>● Data storage in memory</li> <li>● Clipboard</li> <li>● Types of Pages in Clipboard</li> <li>● pyWorkPage</li> <li>● How to view clipboard data</li> <li>● How to use and set property values with the Clipboard</li> <li>● Tracer</li> </ul>
10	Types of Inheritances	<ul style="list-style-type: none"> <li>● Inheritance Types in PEGA</li> <li>● What is Direct Inheritance &amp; Pattern Inheritance</li> <li>● Concept of Dual Inheritance</li> <li>● Introduction to Class Structures</li> </ul>
11	Configuring Data Transforms	<ul style="list-style-type: none"> <li>● Manipulating case data</li> <li>● Introduction to setting property values automatically</li> <li>● Data transforms</li> <li>● How to set values with data transforms</li> <li>● How to set default property values</li> <li>● Data transforms and superclassing</li> </ul>

12	Data Pages	<ul style="list-style-type: none"> <li>● Introduction to Data Pages</li> <li>● How to configure a Data Page</li> <li>● Source data to Data Elements with Data Pages</li> <li>● Load Management</li> </ul>
13	Introduction to Activity	<ul style="list-style-type: none"> <li>● Using Activity to define Business logic</li> <li>● Configuring Activity</li> <li>● How to Call One Activity from Another Activity</li> <li>● Various methods in Activity</li> <li>● Understanding the Difference between Call, Branch &amp; Queue</li> </ul>
14	Routing Assignments to Users	<ul style="list-style-type: none"> <li>● Routing work to users</li> <li>● How to route assignments</li> <li>● Introduction to Worklist &amp; Work Baskets</li> <li>● How to configure custom routing</li> <li>● Case approval configuration</li> <li>● How to configure a single level approval</li> <li>● How to configure cascading approvals</li> <li>● Creating workgroup &amp; workbasket</li> </ul>
15	Configuring Decision Rules	<ul style="list-style-type: none"> <li>● Decision points</li> <li>● How to add a decision point to a process</li> <li>● Decision Rules in PEGA.</li> <li>● How to call Decision Rules</li> <li>● When rule, Decision Table, Decision Tree &amp; Map Value</li> <li>● Using Fork option in Decision Shape of Flow</li> <li>● Configuring a when rule, decision table, decision tree &amp; Map Value</li> <li>● Unit testing the Decision rules</li> <li>● Decision Shape in Flow, Activity Methods &amp; Declare</li> <li>● Expression Functions.</li> <li>● Rule Delegation</li> </ul>
16	Configuring Declare Rules	<ul style="list-style-type: none"> <li>● Introduction to Declarative Processing</li> <li>● Declare Expressions</li> <li>● Declare Constraints</li> <li>● Declare On Change</li> <li>● Declare Trigger</li> <li>● Declare Index</li> <li>● Declare Collection</li> <li>● Forward Chaining &amp; Backward Chaining</li> </ul>

17	Property Optimization	<ul style="list-style-type: none"> <li>● Declare Index.</li> <li>● Introduction to optimizing report data</li> <li>● Data storage in Pega applications</li> <li>● Property optimization</li> <li>● Optimizing properties for reporting</li> </ul>
18	Report Definitions	<ul style="list-style-type: none"> <li>● Reporting: Creating business reports</li> <li>● Introduction to creating business reports</li> <li>● The role of reports</li> <li>● Business and process reports</li> <li>● The Report Browser</li> <li>● How to create a report</li> <li>● How to organize report results</li> <li>● Creating a report</li> <li>● Organizing report results</li> </ul>
19	Service level Agreements	<ul style="list-style-type: none"> <li>● Setting a service level</li> <li>● Service level agreements</li> <li>● How to add a service level to an assignment</li> <li>● How to add a service level to a case</li> <li>● How to add service levels throughout the case life Cycle</li> </ul>
20	Rule sets	<ul style="list-style-type: none"> <li>● What is Ruleset</li> <li>● Rule Set and Versioning</li> <li>● How to create a new rule-set version</li> <li>● How to lock a rule set version</li> <li>● About Check-in, Check-out &amp; Private edit</li> </ul>
21	Validate Rules	<ul style="list-style-type: none"> <li>● Introduction to validating user data</li> <li>● Methods of data validation</li> <li>● Validate rule</li> <li>● Edit validate rule</li> <li>● Configure validate rule and edit validate rule</li> <li>● Validating a flow action using validate rule</li> </ul>
22	Designing the Sections and Layouts	<ul style="list-style-type: none"> <li>● How to build a section rule</li> <li>● How to build a section for reuse</li> <li>● Creating dynamic layouts in a section</li> <li>● Using different types of layouts and controls</li> </ul>

23	Correspondence	<ul style="list-style-type: none"> <li>● Introduction to configuring and sending correspondence</li> <li>● Case communications</li> <li>● Sending an email from a case</li> <li>● How to configure correspondence rules</li> </ul>
24	Unit testing rules	<ul style="list-style-type: none"> <li>● Introduction to Unit testing rules</li> <li>● Unit testing</li> <li>● How to unit test a rule</li> </ul>
25	Delegating rules	<ul style="list-style-type: none"> <li>● Delegating Rule management to Business Users</li> <li>● Business Rule delegation</li> <li>● How to delegate rules to business users</li> </ul>
26	Application Debugging	<ul style="list-style-type: none"> <li>● Application Debugging Tools</li> <li>● Clipboard</li> <li>● Tracer</li> <li>● Reviewing Log files</li> <li>● Live UI</li> <li>● Analyzing application performance</li> </ul>
27	Security	<ul style="list-style-type: none"> <li>● Application Security</li> <li>● Managing Access control</li> <li>● Adding roles to an access control model</li> <li>● Managing access to individual rules</li> <li>● Managing user access with access groups</li> </ul>
28	Release management with Pega Platform	<ul style="list-style-type: none"> <li>● DevOps</li> <li>● Continuous Integration</li> <li>● DevOps Technology</li> <li>● Deployment Manager</li> </ul>
29	Styling an Application	<ul style="list-style-type: none"> <li>● Introduction to styling an application</li> <li>● Styling an application with skins</li> <li>● How to customize an application appearance with skins</li> <li>● Controlling application appearance with a skin</li> </ul>
30	Creating a Pega Application	<ul style="list-style-type: none"> <li>● Exploring the Pega Studios</li> </ul>

		<ul style="list-style-type: none"> <li>● Introduction to the Dev Studio</li> <li>● Creating a Pega application</li> <li>● Introduction to creating a Framework application</li> <li>● Working on creating an Implementation Application</li> <li>● Difference between Framework &amp; Implementation applications</li> </ul>
31	Case Management: Duplicate and Temporary Cases	<ul style="list-style-type: none"> <li>● Introduction to duplicate and temporary cases</li> <li>● Duplicate cases</li> <li>● How to configure a search for duplicate cases step</li> <li>● Temporary cases</li> <li>● How to create temporary cases</li> </ul>
32	Approving Cases with an Cascading Approval process	<ul style="list-style-type: none"> <li>● Approving Cases with an Cascading Approval process</li> <li>● Introduction to configuring a cascading approval process</li> <li>● Cascading approval</li> <li>● Configuring cascading approval with an authority matrix</li> </ul>
33	User Interface: User Portals	<ul style="list-style-type: none"> <li>● Introduction to customizing a user portal</li> <li>● User portals</li> <li>● Harnesses</li> <li>● Customizing a user portal</li> <li>● Changing the logo image in a user portal</li> </ul>
34	Application Versioning	<ul style="list-style-type: none"> <li>● Application Rulesets</li> <li>● Introduction to configuring application rulesets</li> <li>● Rulesets</li> <li>● Ruleset validation</li> <li>● The ruleset Stack</li> </ul>
35	Managing Application Development	<ul style="list-style-type: none"> <li>● Managing Application Development</li> <li>● Introduction to managing application development</li> <li>● Parallel development</li> <li>● Developing in parallel by branching rulesets</li> <li>● Merging changes from a branched ruleset</li> </ul>
36	Localized Application Content	<ul style="list-style-type: none"> <li>● Introduction to supporting multiple languages in</li> </ul>

		application <ul style="list-style-type: none"> <li>• Localization and designing an application for localization</li> <li>• Localizing an application</li> </ul>
37	Parallel Processing	<ul style="list-style-type: none"> <li>• Introduction to configuring parallel processing</li> <li>• Parallel processing in Pega applications</li> <li>• Configuring parallel processing</li> <li>• Case locking</li> <li>• Configuring case locking</li> </ul>
38	Circumstancing	<ul style="list-style-type: none"> <li>• Circumstancing</li> <li>• Introduction to circumstancing rules</li> <li>• Situational processing</li> <li>• Circumstance rules</li> <li>• Circumstancing a rule</li> <li>• Multiple variable rule circumstancing</li> </ul>
39	Field Values	<ul style="list-style-type: none"> <li>• Introduction to configuring field values</li> <li>• Field values</li> <li>• Configuring field values</li> </ul>
40	Rule Resolution	<ul style="list-style-type: none"> <li>• Introduction to rule resolution</li> <li>• How the rule resolution process works</li> <li>• How the rules cache is populated</li> <li>• Influencing rule resolution through rule availability.</li> </ul>
41	Migration	<ul style="list-style-type: none"> <li>• Migrating an application</li> <li>• Introduction to migrating an application</li> <li>• Describe about product rule</li> <li>• Exporting an application using application packaging wizard.</li> <li>• Importing an application</li> </ul>
42	Web Services	<ul style="list-style-type: none"> <li>• Introduction to integration in Pega applications</li> <li>• Connectors</li> <li>• Web Services</li> <li>• Exposing an application with a service</li> <li>• Creating a SOAP service using the Service Wizard</li> <li>• Configuring a Connector to consume the service.</li> </ul>
43	Simulating Integration Data	<ul style="list-style-type: none"> <li>• Simulating Integration Data</li> </ul>



		<ul style="list-style-type: none"> <li>● Integration simulation</li> <li>● Simulating an integration</li> <li>● Simulating connector data</li> </ul>
44	Background Processing	<ul style="list-style-type: none"> <li>● Background processing</li> <li>● Activities and background processing</li> <li>● How to configure a queue processor</li> <li>● How to configure a job scheduler</li> <li>● Background process management</li> </ul>
45	Database Updates	<ul style="list-style-type: none"> <li>● Database updates</li> <li>● Reading &amp; Writing data to a database</li> </ul>
46	Keyed Data Pages	<ul style="list-style-type: none"> <li>● Configuring Keyed datapages</li> <li>● Data Access Patterns</li> </ul>
47	Designing reports with multiple sources	<ul style="list-style-type: none"> <li>● Designing reports with multiple sources</li> <li>● Configuring Sub Reports</li> </ul>
48	Pega Web Mashup	<ul style="list-style-type: none"> <li>● Creating a Pega Web Mash up</li> <li>● Configure the Mash up</li> <li>● Generating Mash Up code</li> </ul>
49	Mobile apps for Pega application	<ul style="list-style-type: none"> <li>● Mobile apps for Pega applications</li> </ul>
50	Offline processing for mobile apps Enabling accessibility features in applications.	<ul style="list-style-type: none"> <li>● Offline processing</li> <li>● Enabling Offline Support</li> <li>● Process Design considerations</li> <li>● Application accessibility</li> </ul>
51	Interview Preparation Tips Discussion	<ul style="list-style-type: none"> <li>● Interview Questions, Preparation Tips &amp; Discussion</li> </ul>



## PegaGang Offering Courses ::

- Pega Certified System Architect ( PCSA )
- Pega Certified Senior System Architect ( PCSSA)
- Pega Certified Lead System Architect ( PCLSA- Part-1 Architect & Part-2 App Build )
- Pega Certified Business Architect ( PCBA )
- Pega Certified Robotics System Architect ( PCRSA )
- Pega Certified Decisioning Consultant ( CPDC)
- Pega User Interface ( UI Cosmos UI design )
- Pega Testing
- Pega Administration

**Disclaimer ::** PegaGang all rights reserved. All PegaGang training materials are proprietary content of PegaGang. We Don't Use / Distribute / provide / Install Pegasystems Materials and Softwares. PegaGang is not an affiliate of Pegasystems. PEGA is a trademark of Pegasystems. Pegasystems is not the publisher of the training material and is not responsible for it in any aspect.