Data Engineer Knowledge Sharing Template

# Onboard Details

Timeframe: 1 Week

1. Complete HR onboarding.  
2. Obtain necessary hardware and software.  
3. Set up development environment.  
4. Schedule introductory meetings with team members.

# Access Details

Timeframe: 2 Days

1. Request and configure access to:  
 - Platforms Tools  
 - Rally Agile  
 - Scrum Teams Intranet Portal  
 - DevOps Platform Tools  
2. Ensure access to necessary repositories and documentation.

# Application Architecture

Timeframe: 2 Weeks

1. Overview of the system architecture.  
2. Review of key components and their interactions.  
3. Understanding data flow and processing.  
4. Hands-on sessions with lead developers.

# Lead Developer Routines

Timeframe: Ongoing

1. Participate in daily stand-ups.  
2. Engage in code reviews.  
3. Collaborate on task assignments and priorities.  
4. Attend weekly sprint planning and retrospective meetings.

# SCA Code Quality Scan Tools

Timeframe: 1 Week

1. Introduction to tools like Snyk.  
2. Configure and run scans on codebase.  
3. Interpret scan results and address vulnerabilities.  
4. Continuous integration of scan tools in the development pipeline.

# Cloud Native Step Function Workflow Data Pipeline Implementation

Timeframe: 3 Weeks

1. Introduction to Step Functions and workflow orchestration.  
2. Designing a data pipeline with Step Functions.  
3. Implementation of data processing and transformation steps.  
4. Testing and validation of the workflow.  
5. Deployment and monitoring of the pipeline.

# Operational Monitoring Tools Usage

Timeframe: 2 Weeks

1. Introduction to monitoring tools like ELK and CloudWatch.  
2. Setting up dashboards and alerts.  
3. Regular monitoring and incident response procedures.  
4. Analyzing logs and metrics for performance tuning.

# DBT Model Builds and Test Procedures

Timeframe: 2 Weeks

1. Overview of DBT (Data Build Tool).  
2. Developing models and transformations.  
3. Writing and running tests on DBT models.  
4. Continuous integration and deployment of DBT models.