**Agile Software Development: Testing Deliverables**

Here is a detailed list of testing deliverables from the initial stages of understanding requirements and mock-up screens to the final sign-off in an agile software development environment:

**1. Requirement Analysis Phase**

* **Requirement Understanding Document (RUD)**:
  + Purpose: To document the understanding of the requirements.
  + Contents: Business requirements, functional requirements, non-functional requirements, assumptions, dependencies.
* **Mock-up Screens**:
  + Purpose: To provide a visual representation of the user interface.
  + Contents: Screen designs, user interaction flows, annotations.

**2. Planning Phase**

* **Test Plan**:
  + Purpose: To outline the test strategy and approach.
  + Contents: Scope, objectives, resources, schedule, test environments, risk analysis, entry and exit criteria.
* **Test Effort Estimation**:
  + Purpose: To estimate the effort and time required for testing.
  + Contents: Breakdown of tasks, estimated hours, resource allocation.

**3. Design Phase**

* **Test Scenarios**:
  + Purpose: To define high-level scenarios to cover different aspects of the application.
  + Contents: Scenario IDs, descriptions, acceptance criteria.
* **Test Case Design Document**:
  + Purpose: To document detailed test cases.
  + Contents: Test case IDs, descriptions, preconditions, test steps, expected results, postconditions.
* **Traceability Matrix**:
  + Purpose: To map requirements to test cases.
  + Contents: Requirement IDs, test case IDs, coverage status.

**4. Development Phase**

* **Unit Test Cases**:
  + Purpose: To validate individual units of code.
  + Contents: Test cases for each unit/module, expected results.
* **Integration Test Cases**:
  + Purpose: To validate the interaction between integrated units.
  + Contents: Test cases for integrated modules, expected results.

**5. Testing Phase**

* **Test Execution Reports**:
  + Purpose: To document the results of test execution.
  + Contents: Test case IDs, execution status (pass/fail), defects, remarks.
* **Defect Reports**:
  + Purpose: To track and manage defects.
  + Contents: Defect IDs, descriptions, severity, priority, steps to reproduce, screenshots, status.
* **Daily Status Reports**:
  + Purpose: To provide daily updates on testing progress.
  + Contents: Executed test cases, pass/fail count, defects logged/resolved, blockers, next steps.

**6. User Acceptance Testing (UAT) Phase**

* **UAT Test Plan**:
  + Purpose: To outline the strategy and approach for UAT.
  + Contents: Scope, objectives, resources, schedule, test environments, risk analysis, entry and exit criteria.
* **UAT Test Cases**:
  + Purpose: To validate the application from an end-user perspective.
  + Contents: Test case IDs, descriptions, preconditions, test steps, expected results, postconditions.
* **UAT Sign-off Document**:
  + Purpose: To formally approve the UAT results.
  + Contents: Summary of test execution, pass/fail count, critical issues, sign-off statement, signatures.

**7. Release Phase**

* **Release Note**:
  + Purpose: To provide information about the release.
  + Contents: Version number, features, bug fixes, known issues, installation instructions.
* **Deployment Verification Test (DVT) Plan**:
  + Purpose: To ensure the application is correctly deployed.
  + Contents: Scope, objectives, resources, schedule, test environments, verification steps.
* **DVT Execution Report**:
  + Purpose: To document the results of deployment verification.
  + Contents: Verification steps, results, issues found, resolutions.

**8. Post-Release Phase**

* **Post-Release Validation Plan**:
  + Purpose: To validate the application in the production environment.
  + Contents: Scope, objectives, resources, schedule, validation steps.
* **Post-Release Validation Report**:
  + Purpose: To document the results of post-release validation.
  + Contents: Validation steps, results, issues found, resolutions.
* **Lessons Learned Document**:
  + Purpose: To capture insights and improvements for future projects.
  + Contents: Successes, challenges, improvement areas, recommendations.

**9. Sign-Off Phase**

* **Final Test Summary Report**:
  + Purpose: To provide a comprehensive summary of the testing activities and results.
  + Contents: Test execution summary, defect summary, key metrics, final sign-off statement.
* **Sign-Off Document**:
  + Purpose: To formally conclude the testing phase.
  + Contents: Summary of testing, final approval, signatures.

This structured list of deliverables ensures a thorough and organized approach to testing in an agile environment, facilitating effective communication and quality assurance throughout the development lifecycle.