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| System Test Plan |
| Cylinders & Orders Management System (COMS) Project |
| This document provides a plan for the testing work to be performed during the development of the Cylinders & Orders Management System. |

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**Cylinders & Orders Management System (COMS)  
 Project**

**System Test Plan**

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# 1. INTRODUCTION

Hoang Kim Joint Stock Company is one of the leading providers of printing cylinders in Vietnam. They are currently using the latest technologies from Germany and Japan, and their client bases include various Vietnamese corporations as well as across Southeast Asia.

The company would like to have an integrated IT system that can:

* Manage the main manufacturing process, i.e. sales orders and cylinders.
* Benchmark employees’ performance to calculate bonuses.
* Give management reporting tools for daily operations.
* Be easy to maintain and to add new features in the future.

## Purpose

The purpose of this document is to provide a plan for the testing work to be performed during the development of the Cylinders & Orders Management System.

## Audience

The intended reader of this plan is the project leader, who is responsible for carrying out the testing of the system. This document should provide all the necessary instructions.

## Organisation

The testing approach and procedure is summarised in Section 2. The test data set is defined in Section 3. Finally, Section 4 specifies each of the system tests to be performed.

## References

To fully understand the background to this project, the reader should also be familiar with:

1. COMS Project Plan, reference GG/COMS/MP.1/2, version 2.0, dated 1 February 2011.

2. COMS Quality Plan, reference GG/COMS/MQ.1/3, version 3.0, dated 13 September 2011.

3. COMS User Requirement Specifications, reference GG/COMS/TS.1/1.1, version 1.1, dated 1 February 2011.

4. COMS High Level Design Specifications, reference GG/COMS/TS.2/1, version 1.0, dated 7 April 2011.

# 2. TEST PROCEDURE

The aim of understanding system testing is to enable the project to demonstrate, with an acceptable degree of confidence, that the Cylinders & Orders Management System satisfies the requirement as defined in the system specification (ref 4).



## Approach

The basic method to be adopted will be to use a test data set, as defined in Section 3, to exercise and demonstrate the functions and features of the system. This will be done through a series of defines tests given in Section 4.

## Scope

The tests defined in Section 4 will attempt to demonstrate that the features and functions specified in the system specification (ref 4) operate correctly. However it should be noted that features that have no specific user requirement, have no tests identified to verify that the facilities operate correctly.

## Procedure

The system tests to be performed are defined in Section 4. System testing will be deemed complete when all the defined tests have been performed, documented, and approved by the Project Manager. For each test defined in Section 4, the following step shall be performed:

1. Determine the expected results of the test;

2. Carry out the test instructions and create any required hardcopy print-outs;

3. Compare the expected with the actual results. If the required results have not been achieved then define the required corrective action;

4. Fill out a test log form, as shown in Figure 2.1. Attach to the form with all the required print-outs, and file in the system testing workfile.

5. If the required results were not achieved then:

1. Implement the corrective action, as specified on the test log form;
2. Perform steps 2, 3 and 4 above. Create a NEW test log form for each repeated test;
3. Repeat (a) and (b) above until the test is successful.

When the tests have been completed, the system testing workfile should submitted to the Project Manager for approval.

**Figure 2.1 :** Test Log Form.

|  |  |
| --- | --- |
| Testing Log Form GG/Forms/Testing | |
| Project Name **Cylinders & Orders Management System** | |
| Test Identifier | File Ref **GG/COMS/TW.3/** |
| Tested by | Date |
| Approved by | Date |
| Test Description **(give brief description)** | |
| Expected Results **(refer to attached documents if necessary)** | |
| Actual Results **(refer to attached documents if necessary)** | |
| Test Status **(either** SUCCESSFUL **or** ERROR) | |
| Corrective Action or Remarks **(refer to attached documents if necessary)** | |

# 3. TEST DATA

The aim of this section is to define the basic data set to be used in the system tests defined in Section 4.



## Sales Orders

Figure 3.1 defines the sales orders to be used in the system tests.

## Cylinders

Figure 3.2 defines the cylinders to be used in the system tests.

## Cylinder Logs

Figure 3.3 defines the cylinder logs to be used in the system tests.

## Employee User Accounts

Figure 3.4 defines the employee user accounts to be used in the system tests

## Departments

Figure 3.5 defines the departments to be used in the system tests.

## Workflow and Steps

Figure 3.6 defines the workflow and steps to be used in the system tests.

## Roles and Access Rights

Figure 3.7 defines the roles and access rights to be used in the system tests.

## Formula

Figure 3.8 defines the formulas to be used in the system tests

## Error Codes

Figure 3.9 defines the error codes to be used in the system tests.

# 4. TEST SPECIFICATION

The system tests to be performed, using the procedure defined in Section 2 and the test data given in Section 3, are listed in the following subsections. Note that unless otherwise stated, all tests assume that:

1. the tester has access privileges set such that read, write, edit and delete operations are permissible for all record types



## Change Cylinder Priority

The aim of this test is to verify that the facilities to change the priority of a particular cylinder operate as specified in

## Export Cylinder Queues

## Login

## Logout

## Manage Employee-Role

## Manage Error

## Manage Performance Formula

## Manage Rights

## Manage Role Approval

## Manage Role

## Manage Sales Order

## Manage User Account

## Manage Workflow-Step

## Print Step List

## Print Worker Marks Report

## Send Cylinder To A Particular Step

## Start Cylinder Production Process

## Stop Cylinder Production Process

## Update Cylinder Status

## View & Print Cylinder Information

## View Cylinder Progress Log

## View Employee Details

## View Error

## View Order Progress Log

## View Sales Order

## View Workflow Queues

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