



Exercise: Create Maintenance Jobs

Purpose Learn how to create maintenance jobs for analog and digital objects. We will try three of the four maintenance types: periodical (**q1**), used time (**p1**) and changes (**p1**).

Duration Max. 30 minutes.

Task 1: Before we create the maintenance jobs in the Maintenance program, we must create the alarm texts we need in Definition.

Create maintenance alarm texts in Definition

Step	Action
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1. In the **Definition** program, select **Edit** → **Alarm Texts**.
 2. Click **New** and create the following alarm text for the maintenance alarm on **q1**:
 - **Acknowledge color:** Light red, no blink.
 - **Alarm text:** “Calibrate flow sensor”
 - **Instructions:** “Use Calibrator AB 1001”
 3. Click **OK** to save the alarm text.
 4. Click **New** again and create the first maintenance alarm text for **p1**:
 - **Acknowledge color:** Light red, no blink.
 - **Alarm text:** “Lubricate pump bearings”
 - **Instructions:** “Use SuperLub for optimal lubrication”Click **OK** to save the alarm text.
 5. Click **New** again and create the second maintenance alarm text for **p1**:
 - **Acknowledge color:** Light red, no blink.
 - **Alarm text:** “Visually inspect rotating parts”
 - **Instructions:** “Make sure you’re inspecting all rotating parts”Click **OK** to save the alarm text.
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6. Install the configuration.


Task 2: Start Supervise and Maintenance

Before we can create the jobs, we need to make sure that **Maintenance** is running when the IGSS application is started.

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| 1. | Open System Configuration and go to the tab Startup and under Auto start select Maintenance . |
| 2. | Click File → Save and Exit . |
| 3. | Click the IGSS Starter icon  IGSS32 Starter to start the system and the Maintenance module is started automatically.. |
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Task 3: Create the maintenance job for q1

For the flow sensor we want to create a maintenance job that ensures that the flow sensor is calibrated every 60th day. Because we want to see the maintenance alarm right now, we create it as 2 minutes instead.

- | Step | Action |
|------|--|
| 1. | In Maintenance, select Actions → New Object or click  . The Select Object dialogue appears. |
| 2. | Under Types , select Analog . |
| 3. | Under Name , select q1 . |
| 4. | Under Maintenance type , select Periodical and click OK . The Maintenance Job Definition dialogue appears. |
| 5. | On the Periodical tab, enter 2 minutes as your Service interval . |
| 6. | In the Alarm number drop-down list, select the “Calibrate flow sensor” alarm text created in Task 1. |
| 7. | Click Maintenance Info to attach the operator instructions. The Maintenance Information dialogue appears. |
| 8. | On the Job Description tab, type a filename for the maintenance job description (for example, “q1_cal_sensor.job”) and type these instructions: “When you calibrate the sensor, make sure you’re using Calibrator AB 1001.” Click OK . |




9. Click **OK** again to save the job. The job now appears in the **All Maintenance Objects** list.

Task 4: Create the maintenance jobs for p1

For the pump we want to create two maintenance jobs: one where we ensure that the pump bearings are lubricated after 1000 hours of operation and one where we ensure that the rotating parts are visually inspected after 1000 state changes.

Step Action

1. In Maintenance, select **Actions** → **New Object** or click . The **Select Object** dialogue appears.
2. Under **Types**, select **Digital**.
3. Under **Name**, select **p1**.
4. Under **Maintenance type**, select **Used Time** and **Changes** and click **OK**.
The **Maintenance Job Definition** dialogue appears.
5. On the **Used Time** tab, enter 3 minutes (1000 hours in real life) as your service interval.
6. In the **Alarm number** drop-down list, select the “Lubricate pump bearings” alarm text created in Task 1.
7. Click **Select States** and move the **Slow**, **Medium** and **Fast** states to the **Monitor states** list. Click **OK**.
8. Click **Maintenance Info** to attach the operator instructions. The **Maintenance Information** dialogue appears.
9. On the **Job Description** tab, type a filename for the maintenance job description (for example, “p1_lub_bearings.job”) and type these instructions: “When you lubricate the bearings, make sure you’re using SuperLub.” Click **OK**.
10. Click the **Changes** tab to create the second maintenance job.
11. In the **Maintain after** box, type 5 changes as your service interval (1000 changes in real life).
12. In the **Alarm number** drop-down list, select the “Visually inspect rotating parts” alarm text created in Task 1.




13. Click **Select States** and move all four states to the **Monitor states** list. Click **OK**.
14. Click **Maintenance Info** to attach the operator instructions. The **Maintenance Information** dialogue appears.
15. On the **Link** tab, we make a reference to the IGSS³² Getting Started manual as an example of referring to the component manufacturer's documentation. Click **Browse** and find the **\Gss\Eng** subfolder of your installation path. Select the file **EngStart.pdf**. The operator will then be able to call up this manual when the maintenance alarm occurs.
16. Click **OK** to save the maintenance job and close the dialogue.

Task 5: View, acknowledge and complete maintenance alarms

In this last task, we'll handle the maintenance alarms that will result from the maintenance jobs we just created. Remember that the maintenance alarm will occur in two contexts: in the Alarm List (because we attached an alarm text) and in the Maintenance List.

Step Action

1. When the first maintenance alarm occurs in the Alarm List, acknowledge it.
2. In Maintenance, select the alarm in the **Active Maintenance Objects** list and click the **i** icon in the toolbar to view the operator instructions. Click **OK** when you've read the instructions.
3. Complete the alarm by clicking the  icon. The maintenance job will now be moved to the **All Maintenance Objects** list.
4. Click **All Maintenance Objects** in the tree view to see the result.

YOU HAVE SUCCESSFULLY COMPLETED THE EXERCISE !!