

Exercise 1.1 – Create a Function

Learning Outcomes

Upon completion of this exercise, you will be able to:

- Specify the key components of a function and be able to create a valid function using the Cicode Editor.
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This exercise will create the basic structure to be used for the remainder of the course. Here, a simple function will be created that will eventually form a suite of actions capable of automating the TestCicode_HD1080 plant.

Clearly, such a set of tasks would not have a place in a 'real' plant, but in this instance, they serve a useful purpose in making visible the effects of the various techniques being demonstrated.

1. Set the scope of the function.

- i. In the **Cicode Editor**, open the **Training.ci** file and position the cursor below the previously entered function. Press **Enter** a couple of times to create a separation.
- ii. Type the key word **Public** and press **Enter**.

In *Scope* (page 1), it was demonstrated that a function could be declared **Public** or **Private**. Private functions will be addressed later in the course.

2. Create the function declaration.

- i. Type **Function**, press **Enter** twice and then type **End**.

In the section *Declaration* (page 1), it was made clear that the use of these two key words defined the formal beginning and end of the function. The function will currently look like this:

```
PUBLIC  
FUNCTION  
  
END
```

Exercise - Create a Function (cont.)

3. Give the function a name.

- i. Position the cursor after the word function and type:

```
Automate()
```

- ii. The function will now look like this:

```
PUBLIC  
FUNCTION Automate()  
  
END
```

4. Add a Statement

- i. Position the cursor on the blank line between **Function** and **End**. Press the **Tab** key to indent the text.

- ii. Add the text:

```
TT_100_PV = 30
```

- iii. The function will now look like this:

```
PUBLIC  
FUNCTION Automate()  
    TT_100_PV = 30  
END
```

5. Save and compile the function to confirm it is correct.

- i. Select the menu **File | Compile** to confirm the correct entry of the function details.

