

## *IT301 $\mu$ From IoT Devices to the Cloud with the IBM Node-RED Tool*

### Coding 1: What time is it?

This assessment evaluates the following competencies:

- *IT101 – Understand the event-driven programming model* (+1)
- *IT102 – Write and launch a program with the Node-RED tool* (+2)
- *WP501 – Define, launch and test an HTTP API server* (+1)

You may also be assessed on the following competencies:

- *IT501 – Debug and test a Node-RED program* (+1)
- *IT121 – Define JavaScript functions blocks to transform data* (+1)

In this coding assessment, you have to write a Node-RED program that shows the current hour when going to `http://127.0.0.1:1880/now`. To succeed the assessment, you have to:

1. Write the described program and run it.
2. Explain to the teacher how you designed your Node-RED program and what data is flowing between the nodes and show him/her how it is working.

Note that you may need to use a file in which the current timestamp is regularly written to (using an `inject` node configured with an interval). Also, if you want to customise the displayed format, you may need a `template` node or a `function` node and a little bit of JavaScript.