

## Session 2

# The UTP Cable

### 2.1 Objective

The student correctly installs an RJ45 connector on a UTP Ethernet cable, and is able to verify that this cable is working according to international specifications.

### 2.2 Before the lab session

Research and read information about the EIA/TIA 568 standard, which describes configuration and assembly for the Unshielded Twisted Pair (UTP) cable.

#### 2.2.1 Required for the lab session

The student needs to bring a written Internet link to a video or a page that shows how to install an RJ45 connector on a UTP or Ethernet cable.

### 2.3 Procedure

1. Helped by the video and the instructor, the student will install two RJ45 connectors on a UTP cable, one connector on each cable's end.
2. Using the lab equipment, the student will test and verify that the assembled cable works as expected. The student must save the report generated by the test equipment.
3. If the cable does not pass the test, the student needs to verify his assembly and repeat it if necessary.

### 2.4 Report

Include three pictures that show the procedure followed to assemble the UTP cable. Also, include the results displayed by the test equipment.