

## Electrotechnical Department

<b>NTC 6 General subjects</b>	<b>Scope</b>
<b>Secretary:BOUGHAGHA Abderrahim</b>	Terminology, documentation and graphical symbols, terminal markings and other identification markings, quantities and units and their letter symbols, insulation coordination, environmental testing, functional safety, degrees of protection provided by enclosures, classification of environmental conditions, electromagnetic compatibility, fire hazard testing.
<b>NTC 7 Materials</b>	<b>Scope</b>
<b>Secretary:TALHA Douniazed</b>	Bare aluminium conductors, Electro-insulating fluids, Insulating materials, Winding wires, Magnetic alloys and steels
<b>NTC 8 Production and use of electrical energy</b>	<b>Scope</b>
<b>Secretary:BOUGHRIRA Nouredine</b>	Rotating machinery, Hydraulic turbines, Steam turbines, Electrical traction equipment, Power transformers, Secondary cells and batteries, Power electronics, Electric welding, Industrial electric heating, Power capacitors, Publicly available electric vehicles and electrically operated industrial trucks, Short-circuit currents, Wind turbine systems, Overhead electrical lines
<b>NTC 9 : Transport and distribution of electrical energy</b>	<b>Scope</b>
<b>Secretary:TALHA Douniazed</b>	Switchgear, electric cables, fuse-links, insulators, surge arresters, high-voltage test techniques
<b>NTC 10 : Installation and operation</b>	<b>Scope</b>
<b>Secretary:BOUGHRIRA Nouredine</b>	Standard voltages and currents - Standard frequencies, Electrical installations of ships and of mobile and fixed offshore units, Electrical equipment for explosive atmospheres, Electrical installations of buildings, Electrical installations for outdoor sites under heavy conditions (including open-cast mines and quarries). Live working, Protection against lightning, Electrical insulation systems (EIS).
<b>NTC 11 : Telecommunications</b>	<b>Scope</b>
<b>Secretary:BOUGHAGHA Abderrahim</b>	Radiocommunications. Safety of machinery, Electrotechnical aspects. Nuclear instrumentation. Power system control and associated communications. Recording. Measurement and control in industrial processes, Alarm systems. Navigation instruments. Equipment and systems in the field of audio, video and audiovisual technology.
<b>NTC 12 : Electronic components and sub-assemblies</b>	<b>Scope</b>
<b>Secretary:BOUGHAGHA Abderrahim</b>	Primary and secondary cells. Electron tubes. Capacitors and resistors for electronic equipment. Cables, wires, waveguides, connectors and accessories for communications and signalling. Semiconductor devices. Electromechanical components and mechanical structures for electronic equipment. Piezoelectric and dielectric devices for frequency control and selection. Magnetic components and ferrites. Printed circuits. Photovoltaic power systems. Fibre optics. Surface mounting technology. Design automation. All-or-nothing electrical relays. Measuring relays and protection equipment.
<b>NTC 13 : Measurement, Control and General Testing</b>	<b>Scope</b>
<b>Secretary:BOUGHERIRA Nouredine</b>	Electrical energy measurement and load control equipment. Electroacoustics. Instrument transformers. Safety of measuring, control, and laboratory equipment. Equipment for measurement of electromagnetic quantities, ultrasonics. Small power transformers and inductors, special transformers and inductors.
<b>NTC 14: Safety, Household and similar</b>	<b>Scope</b>

<b>electrical appliances</b>	Small switchgear. Lamps and related equipment. Functional safety of household and similar electrical appliances. Electrical equipment in medical practice. Automatic controls for household appliances. Safety of information technology equipment including electrical office equipment and telecommunications equipment. Laser equipment. Safety of electronic audio, video and similar apparatus. Electrical installations for aerodrome lighting and signalling.
<b>Secretary:TALHA Douniazed</b>	
<b>NTC 60 : Energy</b>	<b>Scope</b>
<b>Secretary:BOUGHAGHA Abderrahim</b>	Standardization in the fields of the peaceful applications of nuclear energy and the protection of persons against all sources of ionizing radiation, and in the field of the use of solar energy for air and water heating appliances, refrigeration, industrial process heating and air conditioning.
<b>NTC 63 : Household equipment</b>	<b>Scope</b>
<b>Secretary:TALHA Douniazed</b>	Standardization of household equipment such as: general kitchen equipment, cookers, ranges, ovens and similar appliances, kitchen furniture, household refrigeration appliances, dishwashers, cooking utensils, laundry appliances, electric and gas heating appliances.
<b>NTC 69 : Energy efficiency management and renewable energies</b>	<b>Scope</b>
<b>Secretary:BOUGHERIRA Nouredine</b>	Standardization in the field of energy efficiency and renewable energies.
<b>NTC 73: Equipment for explosive atmospheres</b>	<b>Scope</b>
<b>Secretary:BOUGHERIRA Nouredine</b>	to prepare and maintain national standards concerning electrical equipment intended for use in explosive atmospheres in the form of gases, vapors, mists, or combustible dusts.