

## Mining, Metallurgy and Mechanical Engineering

<b>NTC 15 : Tools and machinery • Tools</b>	<b>Scope</b>
<b>Secretary:</b> GUEDDAH Hacene	(Preparation of basic standards and standards with conditions for testing and acceptance of tools, machine tools and accessories)
<b>NTC 16: Fasteners, Valves and fittings</b>	<b>Scope</b>
<b>Secretary:</b> BOUKAMOUM Sid Ahmed	(Characteristics, terminology. Quality and test methods. Interchangeability.)
<b>NTC 17 : Cranes and lifting appliances</b>	<b>Scope</b>
<b>Secretary:</b> BOUKAMOUM Sid Ahmed	(Terminology and characteristics; design and maintenance; interchangeability.)
<b>NTC 18 : Road vehicles - Cycles</b>	<b>Scope</b>
<b>Secretary:</b> GUEDDAH Hacene	(Terminology and characteristics; design and maintenance; interchangeability of components; test methods.)
<b>NTC 19 : Tractors and machinery for agriculture and forestry</b>	<b>Scope</b>
<b>Secretary:</b> GUEDDAH Hacene	(Terminology and characteristics, characteristics, design and maintenance, interchangeability of components, test methods.)
<b>NTC 20 : Pumps, Fluid power systems and components, Compressors, Turbines</b>	<b>Scope</b>
<b>Secretary:</b> BOUKAMOUM Sid Ahmed	(Terminology and characteristics, design and maintenance, interchangeability of components, test methods.)
<b>NTC 21 : Mining</b>	<b>Scope</b>
<b>Secretary:</b>	(Materials and equipment)
<b>NTC 22 : Ores and concentrates, and useful substances</b>	<b>Scope</b>
<b>Secretary:</b>	(Ores, concentrates, useful substances)
<b>NTC 23 : Activities related to metallurgy</b>	<b>Scope</b>
<b>Secretary:</b>	(Welding by all processes and related activities)
<b>NTC 24 : Testing of metals</b>	<b>Scope</b>
<b>Secretary:</b>	(Metallic materials)
<b>NTC 25 : Steel and steel products</b>	<b>Scope</b>
<b>Secretary:</b>	(Steels, cast irons and their products)
<b>NTC 26 : Non-ferrous metallurgy</b>	<b>Scope</b>
<b>Secretary:</b>	(Non-ferrous metallurgy)
<b>NTC 61 : Refrigeration and air conditioning</b>	<b>Scope</b>
<b>Secretary:</b> BOUKAMOUM Sid Ahmed	(Standardization in the fields of refrigeration and air conditioning, including terminology, mechanical safety, test methods and calibration devices, measurement of sound levels, refrigerating chemicals and refrigerants, taking into account aspects related to environmental protection.)
<b>NTC 62 : Industrial automation systems and integration</b>	<b>Scope</b>
<b>Secretary:</b>	(Standardization in the field of industrial automation systems and integration concerning the manufacture of discrete parts and encompassing the application of multiple techniques, namely information systems, machinery and equipment, and telecommunications.)
<b>NTC 72 : Shipbuilding and marine structures</b>	<b>Scope</b>

**Secretary:**GUEDDAH El Hacene

(Standardization of aspects related to design, construction, training, structural elements, accessories, equipment, methods and technology, as well as maritime environmental issues in the shipbuilding sector. This includes seagoing vessels, inland navigation vessels, ship-port interfaces, and small craft up to 24 meters in hull length.)