



## INTRODUCTION TO THE FORMULATION OF RUBBER FOR PNEUMATICS COMPONENTS

There will be supplied bases of materials and basic formulations of components as lateral, carcass, tread of a tire and his processes of vulcanization.

PROGRAM CONTENT
1) Principal polymers used in the construction of pneumatics.
2) Principals Lampblacks used in the construction of the parts of the tire.
3) Additive used in the formulations.
4) Introduction to the processes of manufacture of the compounds and of the elements of assembly.
5) Vulcanization.
6) Formulation of Bladders.
7) Formulation of carcass.
8) Formulations of the lateral.
9) Formulations of directions of tread of a tire.
10) Formulations of cameras and isolations of the tires without camera.
11) Basic formulations for recuperation.
12) Exercises of fixation and final discussion.



## DURATION TIME

- ✓ 20 hours.

## PREREQUISITE

- ✓ People with factory practice.

## TARGET AUDIENCE

- ✓ Technicians, engineers, supervisors and people with practical factory involved in the production of the compounds, production scheduling, process and product development staff.

## SUPPORT

- ✓ It will be necessary to play handouts, I need overhead projector and whiteboard to teach and clarify the content.

## NUMBER OF STUDENTS PER CLASS

- ✓ Maximum of 25 students.