

# HIGHER UNIVERSITY TECHNICIAN IN MAINTENANCE INDUSTRIAL AREA GRADUATION PROFILE

## MISSION

Provide a quality education to train professionals of Higher Technical University level in Maintenance Industrial Area, with integral competences in the technical and the human; with leadership, communication and collaborative work skills to manage strategies and optimize maintenance activities, as well as the replacement or manufacture of parts of electromechanical systems in machinery, equipment and industrial distribution networks. Integrate new technologies in the implementation of maintenance projects and / or technological or social entrepreneurship, with a high sense of social responsibility and committed to their professional and labor development.

## VISION

To be the best educational option with recognized prestige for the integral formation of its students in the technical and human aspects; with a high level of relevance; with perspective of their environment and with the ability to respond according to the new skills that human resources require to face the technological and market changes of 4.0 Industry. Assume the commitment to the labor integration of the graduates, sustainability and social responsibility.

## GRADUATION PROFILE BY COMPETENCES

### GRADUATION ATTRIBUTES

Manage maintenance activities by integrating the master plan, to ensure operation and contribute to the productivity of the organization.

Supervise the replacement or manufacture of parts of electromechanical systems in machinery, equipment and industrial distribution networks using standards to maintain the systems in optimal condition.

Basic Sciences. Raise and solve problems based on the principles and theories of physics, chemistry and mathematics, through the scientific method to support decision-making in the scientific and technological fields.

Oral and Written Expression. Communicate feelings, thoughts, knowledge, experiences, ideas, reflections and opinions, in a clear and detailed way, on concrete and abstract topics in their professional and sociocultural context, according to level B2, independent user, of the European Framework of Reference, to base and propose improvements in organizations and contribute responsibly to sociocultural development.

Management. Act with proactive values and attitudes of excellence in their personal, social and organizational development, in harmony with their environment to develop their personal, social and organizational potential.

English. Communicate feelings, thoughts, knowledge, experiences, ideas, reflections, opinions, through simple and commonly used expressions, in a productive and receptive way in the English language according to level A2, basic user, of the European Framework of Reference to contribute to the performance of their functions in their work, social and personal environment.

## EDUCATIONAL OBJECTIVES

1. Develop and manage maintenance strategies in public and private companies to guarantee the operation and contribute to productivity in its different area.
2. Diagnose and repair hydraulic, electromechanical, electronic and industrial distribution networks to maintain their availability.

3. Develop technological entrepreneurship projects oriented to their graduation profile.
4. Maintain a permanent training that allows their updating in the technological advances of their field of work.
5. Participate in multidisciplinary groups in a collaborative manner, applying communication skills, leadership that contribute to the continuous improvement of the organization.

## ▶ PERFORMANCE SCENARIOS

- Public and private companies dedicated to the primary, secondary and tertiary sectors such as: Mining, Fisheries and Agriculture.
- Metalworking, food, plastic, chemical, clothing, aeronautical, automotive, household appliances, pharmaceutical companies, among others.
- Service companies such as hotels, hospitals, among others.
- Their own Industrial Maintenance company.

## ▶ PROFESSIONAL OCCUPATIONS

- Maintenance Supervisor
- Maintenance Planner
- Maintenance Manager
- Maintenance Leader
- Maintenance Technician