

INDUSTRIAL MAINTENANCE ENGINEERING GRADUATION PROFILE

MISSION

Provide a quality education to train professionals at the level of Industrial Maintenance Engineering, with comprehensive technical and human skills; with leadership, communication and collaborative work skills, to design strategies and optimize maintenance activities and the operating conditions of the teams, as well as validate engineering studies and technical-economic 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 Industrial 4.0; assuming the commitment to the labor integration of the graduates, sustainability and social responsibility.

GRADUATION PROFILE BY COMPETENCES

GRADUATION ATTRIBUTES

Design maintenance strategies through the analysis of human, technological, economic and financial factors, for the elaboration and administration of the maintenance master plan that guarantees the availability and reliability of the plant, contributing to the competitiveness of the company.

Optimize maintenance activities and equipment operating conditions through reliability techniques and tools to increase overall equipment efficiency and reduce maintenance costs to support the sustainability and competitiveness of the company.

Validate engineering studies and technical-economic projects through feasibility analysis to improve the maintainability of equipment and facilities.

Basic Sciences. Raise and solve engineering 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.

Management. Develop and lead organizations through the ethical exercise of leadership, with a systemic approach to contribute to the achievement of strategic objectives.

English. Communicate feelings, thoughts, knowledge, experiences, ideas, reflections, opinions, in the public, personal, educational and occupational fields, productively and receptively in the English language according to level B1, independent user, of the European Framework of Reference to contribute in the performance of their functions in their work, social and personal environment.

EDUCATIONAL OBJECTIVES

1. Contribute to the continuous improvement of production systems through the design and / or commissioning of equipment and manufacturing lines, maintenance management and the development of engineering projects.
2. Diagnose and optimize electromechanical systems and industrial facilities, raising their overall efficiency.
3. Develop their own companies, according to their graduation profile, that allow generating employment and development in the region, in order to ensure the benefit of society

4. Participate in projects or activities that improve the industrial safety of organizations and the environment, respecting current legislation and regulations.
5. Maintain continuous training, taking courses according to their profession and / or specialization or postgraduate studies, obtaining the corresponding certifications.
6. Participate collaboratively in work teams for the fulfillment of objectives and goals, always conducting themselves in an ethical and professional way in making relevant decisions.

▶ PERFORMANCE SCENARIOS

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

▶ PROFESSIONAL OCCUPATIONS

- Plant manager
- Maintenance Management
- Maintenance Engineer
- Maintenance Manager
- Supervisor or Maintenance Manager
- Maintenance Leader