

INDUSTRIAL ENGINEERING GRADUATION PROFILE

MISSION

Provide a quality education to train professionals at the level of Industrial Engineering with comprehensive competencies in the technical and human; with leadership, communication and collaborative work skills to manage the necessary resources of the organization ensuring production and the quality system. Develop and innovate manufacturing systems 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 the necessary resources of the organization to ensure the planned production, according to the requirements of the client.

Manage the quality management system, with a systemic approach, according to the requirements of the client, considering technical and economic factors, contributing to sustainable development.

Develop and innovate manufacturing systems through project management considering customer requirements, quality standards, ergonomics, safety and ecology to achieve the competitiveness and profitability of the organization with a globalized approach.

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. Plan, implement and validate production facilities optimizing the organization's resources while achieving the client's production requirements.
2. Develop and implement continuous improvement strategies to increase the productivity of teams contributing significantly to the achievement of key process indicators.
3. Standardize manufacturing processes based on customer requirements and quality regulations to ensure their reliability by systematizing their performance.
4. Maintain a permanent training that allows their updating in the technological advances of their field of work.
5. Participate in working groups collaboratively, applying communication and leadership skills that contribute to the continuous improvement of the organization.

▶ PERFORMANCE SCENARIOS

The economic sectors: extractive, manufacturing and services, private or public, developing their professional skills with a sustainable approach, that allow them to apply their skills related to the design and development of products, design and implementation of processes, management of the operational and administrative activities of a plant or company, including the implementation, development and control of projects.

▶ PROFESSIONAL OCCUPATIONS

Engineer, Area Head, Superintendent, Manager, Director, in areas of: Production, Quality, Product Engineering, Manufacturing Engineering, Logistics, Technological Innovation, Projects, Technical Support, among others.