

Code	TBD	Prerequisites	Industrial Processes II
Name	Process II - Blow Molding	Co-requisites	Plastic Materials I

Credits	Contact Hours
04	44
Categorization of credits	
Math and basic science	
Engineering topic	X
Other	

Coordinator's name	Simón Pascual
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Text book
<p>Beall L.G., Throne, J.L. (2004). Hollow Plastic Part: Design and Manufacture. (1 Edition). United States of America. Hanser Publication.</p> <p>Belcher, S.L. (2007). Practical Guide to Injection Blow Molding.(1 Edition). United States of America. CRC Press Taylor & Francis Group.</p> <p>Jones, D.A., Mullen, T.W. (2013). Blow Molding. (1 Edition). United States of America. Reinhold Plastic Applications Series.</p> <p>Lee, N.C. (2011). Understanding Blow Molding. (2 Edition). United States of America. Hanser Publication.</p> <p>Rosato, D., Rosato, A., Di Mattia, D. (2004). Blow Molding Handbook. (2 Edition). United States of America. Hanser Publication.</p>
Other supplemental materials

Description
<p>Process II – Blow molding, within the polymer concentration, traces the way to more advanced levels of plastic resin transformation processes. The participants of this course will be able to appreciate in detail all the technical variables involved in Blowing, so that at the end of the training, they will be equipped with theoretical-practical knowledge that will facilitate integration into the production process with the necessary tools. to add value to the organizations with which they get involved.</p>
<div> <div>Type of course</div> <div> <input type="checkbox"/> Required <input checked="" type="checkbox"/> Elective </div> </div>

Specific goals for the course

Outcomes of instruction	<ol style="list-style-type: none"> 1. Show curiosity about technology and applied science with an interest in developing innovative solutions that impact production processes 2. Define and distinguish industry trends by participating in updating processes, in order to propose solutions that reflect those available in the market. 3. Incorporate the criteria of quality, costs and safety into the practice of their work environment, manifesting in their decision-making, compliance with specifications and profitability within the projected margins.
Student outcomes	<ol style="list-style-type: none"> 1. Recognize the need and is able to participate in initiatives and spaces for continuous learning and updating in both professional and academic contexts. 2. Recognize ethical and professional responsibilities in engineering situations and makes informed judgments considering the impact of engineering solutions in global, economic, environmental, and social contexts.

Topics
Unit I. Introduction: The Blowing Process Unit II. Basic Aspects of the Process Unit III. Blow Process Variables Unit IV. Technical Criteria Involved in the Process Unit V. The Toolkit of the Process Unit VI. The Machine and its Maintenance Unit VII. Mold Installation, Problems and Solution; Useful Formulas for Molding