SENA REGIONAL VALLE	Centro Nacional de Asistencia Técnica a la Industria – ASTIN **TALLER "Reading Comprehension"**	Código: 9230-FP-F-322 Versión: 2

1. IDENTIFICACIÓN DEL INSTRUMENTO:

Programa de Formación: GPI	Ficha de caracterización: 2558024
Nombre de la Actividad de Aprendizaje: Identificar la idea principal a partir del análisis de textos técnicos.	
Nombre del Instructor: Carolina Valderruten Peña	
Ciudad y fecha: Cali, mayo 8 de 2023	

2. PRESENTACIÓN E INSTRUCCIONES PARA EL DILIGENCIAMIENTO:

Señor/a Aprendiz:

- Resuelva los problemas o casos planteados.
- Al responder escriba con letra clara y sea conciso.
- Entregue los productos al Instructor y solicite retroalimentación del taller.

3. CUERPO DEL INSTRUMENTO:

Reading Comprehension Worshop

1. Read the following Abstract and answer the items below.

INTELLIGENT SYSTEM OF PRODUCTS DELIVERY THROUGH INTEGRATION OF ARTIFICIAL VISION, MOBILE ROBOTICS AND FLEXIBLE MANUFACTURING SYSTEM (FMS)[1]

With the arrival of the fourth industrial revolution also called Industry 4.0, whose main objective is the implementation of a large number of intelligent factories, capable of greater needs adaptability and production processes, as well as a more efficient allocation of resources, it is important, as a training institution in new technologies, to take a decisive role in the acceleration of entrepreneurship in the transition to industries 4.0; Therefore, it is proposed to use new technologies in the processes of the Flexible Manufacturing System (FMS), with which the FACT FESTO environment of the Centro de la Industria, la Empresa y los Servicios SENA Regional Huila counts. The system consists of a man-machine environment developed to be run from a Tablet, where the users can select their order and will be supervising the entire dispatch process, the products that in this case will be three pieces of work with different characteristics, red and black plastic pieces, and metallic pieces, will be found in a warehouse, once the users select their order, an autonomous mobile robot will move to the warehouse and the location of the piece to be transported by means of an artificial vision algorithm that will identify the color characteristics , the piece will be trans-ported to the FMS, where only the relevant modular systems will be enabled, making the process more efficient and having the tracking of the product to be delivered in real time.

Keywords: FMS, Industry 4.0, OPC, PLC, Mobile Robot, Artificial Vision.

2. What is the main idea of the research?
3. What are the main facts expressed on the research?
4. Does this abstract have conclusion? If so, copy it.
5. What type of future research does the article may have?
6. What kind of abstract is this one?
7. Where does the author propose this intelligent system?
8. Compare your answers with your classmates. Does everyone have the same answer as you? Are those answer different? Why do you think they are different from yours?

4. PRODUCTO (S):

1. Solve the workshop in English.
2. Socialize the answers in class.

Observaciones y/o recomendaciones:

[1] More information about the abstract: Cháux, J. R et al. (2019). INTELLIGENT SYSTEM OF PRODUCTS DELIVERY THROUGH INTEGRATION OF ARTIFICIAL VISION, MOBILE ROBOTICS AND FLEXIBLE MANUFACTURING SYSTEM (FMS). *Revista NOVA*, 5, p. 76 – 82. https://doi.org/10.23850/issn.2500-4476