

Course Syllabi

1. INDU-00019 OCCUPATIONAL HEALTH AND SAFETY

2. 144 credits hours.

3. Bibliography

- Reglamento del Instrumento Andino. Resolución 957 /
<https://www.comunidadandina.org/StaticFiles/DocOf/RESO957.pdf>, Comunidad Andina, 2005
- Reglamento General del Seguro de Riesgos del Trabajo, Instituto Ecuatoriano de Seguridad Social, 2016
- Seguridad Ocupacional /
<https://research.ebsco.com/c/thxni/search/details/cnxsewvosv?q=SE%20%22Coleccion%20Textos%20Universitarios%20Ingenieri%CC%81a%22>, Trujillo Mejía, Raúl Felipe, 2011
- Reglamento de Seguridad y Salud en el Trabajo. DE 255, Varios, 2024
- Instrumento Andino de Seguridad y Salud en el Trabajo. Decisión 584, Consejo Andino de Ministro de Relaciones Exteriores, 2004
- NTE INEN 2266:2013 , Instituto Ecuatoriano de Normalización, 2013
- Seguridad e higiene del trabajo. Técnicas de prevención de riesgos del trabajo, Cortes Díaz, José María, 2012

4. Specific Course Information

a. The subject will address the study of Occupational Safety and Health through the development of management techniques that seek to preserve the physical and psychosocial integrity of workers in a workplace under the current legal regulations. It encourages work in a team whose members together provide leadership, create a collaborative and inclusive environment, set goals, work plans and achieve objectives effectively. (RDA5), considering the impact of d and engineering under global conditions (RDA4).

b. Prerequisites:

- CSCO-00120 HUMAN TALENT MANAGEMENT
- DERE-00016 ECUADORIAN LEGISLATION

5. Learning Objectives of the Course

a. Assess the conditions of occupational risk any workplace and apply the relevant industrial safety and occupational health techniques based on the current national legislation

- Plan preventive measures to prevent the occurrence of occupational accidents and diseases.
- Apply the principles of occupational risk management to minimize risk factors in a workplace.
- Identify the organizational safety structure necessary for the operation
- Applying the basics of signage and fire prevention in a workplace.

b. Learning Outcomes

- It analyses the different factors of occupational risk in a workplace by seeking the approach of work plans for the improvement of the working environment (rda 5), applying engineering solutions in global contexts. (rda 4)
- It recognizes the key aspects of fire prevention, setting targets and plans to achieve objectives effectively. (rda 4)
- It identifies the principles of signalling, setting goals and plans to achieve objectives effectively. (rda4)

- Associates the proper use of individual protection equipment, to present solutions to care for the worker. (rda4)
- It investigates an accident at work, determining the minimum components necessary, through collaborative work to improve the conditions of the company. (rda5)
- It applies the minimum requirements to be met in the formation of the area of industrial safety in a workplace, recognizing the ethical responsibilities of the profession. (rda4)

6. Course Topics

- Introduction to industrial safety and occupation health
- Work accident and professional disease
- Management of evaluation of risks of work
- Industrial safety legislation
- Prevention and protection against fires
- Personal protection
- Signal and dangerous materials