



Revised by: C. Bertram
Reviewed by: R. Mallard
C & G Ed approval: November 8, 2010
Board approval: December 9, 2010

Industrial Education Safety (IES) 1052 Respiratory Protection (1.25 Units)
[formerly Industrial Education Safety 52]

Prerequisite: None

Total Hours: 20 hours lecture

Catalog Description: This course covers the requirements for the establishment, maintenance, and monitoring of a respirator program. Topics include terminology, Occupational Safety Health Administration (OSHA) standards, National Institute for Occupational Safety and Health (NIOSH) certification, and medical evaluation recommendations. Course highlights include laboratories on respirator selection, qualitative fit testing, and the use of a large array of respiratory and support equipment for hands-on training. This course is offered on a Pass/No Pass basis with the option to receive a letter grade.

Type of Class/Course: Degree Credit

Textbook: *29 CFR §1910 General Industry Regulations*. Mangan Communications, Inc.: Davenport, Iowa, 2008.

Cal-OSHA General Industry Safety Orders. Mangan Communications, Inc.: Davenport, Iowa, 2008.

Additional Required Materials: None

Course Objectives: By the end of the course, a successful student will be able to

1. identify and describe the major elements of a respiratory protection program following the requirements of 29 CFR 1910.134,
2. discuss the technical aspects for the proper selection and use of respiratory protection, and
3. evaluate compliance with OSHA's respiratory protection standard by using the compliance directive and the Small Entity Compliance Guide.

Course Scope and Content:

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| Unit I | General |
| | A. Hierarchy of Controls |
| | B. Respirator Descriptions |
| Unit II | Standards I |
| | A. Selection Criteria |
| | B. Respirator Capabilities |
| Unit III | Standards II |
| | A. Medical Evaluations |
| | B. Fit Testing and Personnel Evaluation |

Learning Activities Required Outside of Class: None

Methods of Instruction:

1. Lecture
2. Group exercises



3. Workshops

Methods of Evaluation:

1. Written Final Exam
2. Performance Observation