

Occupational Safety & Health

OSH 101

Fundamentals of Occupational Safety & Health • 5.0 Credits

Formerly IHST 101, OSH 101

This course covers the fundamental aspects of occupational safety and health practices and how they are related to applicable standards, risk management, performance metrics, hazard recognition/controls, industrial hygiene, environmental management, fire safety, systems safety, ergonomics, hazardous materials, fleet safety, emergency management, and accident investigation. \$5 per credit Industrial Health & Safety fee.

Prerequisite: A grade of 2.0 or better in MATH 50, 70 or 72, or a grade of 0.7 or better in a higher math class, or appropriate placement.

OSH 124

Industrial and Construction Safety Regulations • 5.0 Credits

Formerly IHST 124, OSH 124

This course is a study of OSHA regulations for construction and general industry, and WISHA standards and regulations. Students will develop an understanding of safety management, project incorporation of safety, and subcontractor management. Topics covered include: excavation, fall protection, scaffolding, equipment operation, steel erection, cranes, and electrical. \$5 per credit Industrial Health & Safety fee.

OSH 147

Ethics, Documentation, and Records • 4.0 Credits

Formerly IHST 147, OSH 147

Safety and health professionals face potential legal and ethical issues on an almost daily basis. In a landscape of changing responsibilities and new laws, they often make difficult decisions that can result in the creation of legal issues and liabilities for themselves and their companies. This course will explore issues in criminal liability for individuals and corporations under the OSHA Act and state criminal codes. \$5 per credit Industrial Health & Safety fee.

OSH 151

Accident Prevention, Inspection & Investigations • 5.0 Credits

Formerly IHST 151, OSH 151

This course provides a review of accident investigation methodologies that include accident response, evidence collection, analysis techniques, and developing and communicating recommendations to prevent recurrence. It includes drug/alcohol testing, claims management, return to work/rehabilitation programs, and preparation for lawsuits and deposition. \$5 per credit Industrial Health & Safety fee.

OSH 152

Internship • 1.0–7.0 Credits

Formerly IHST 152, OSH 152

Under the supervision of the college instructor and employer, a student will serve an internship of up to 231 hours in an industry, enforcement agency, or consultation services setting. CTE department permission is required to enroll. \$5 per credit Industrial Health & Safety fee.

OSH 153

Risk Management • 5.0 Credits

Formerly IHST 153, OSH 153

This course is an examination of risk management principles in the context of safety and health management. Strategies and tactics for reducing workplace hazards are presented through a review of best practices and principles balanced by an organization's use of opportunistic and speculative risks. \$5 per credit Industrial Health & Safety fee.

OSH 177

Industrial Chemical Safety & Hazards • 5.0 Credits

Formerly IHST 177, OSH 177

A systematic analysis of how hazardous materials escalate an incident or emergency event. This course includes examination of the basic fundamental concepts common to hazardous chemicals with an emphasis on how some key elements, compounds, and mixtures are inherently dangerous. \$5 per credit Industrial Health & Safety fee.

OSH 230

Industrial Toxicology • 5.0 Credits

Formerly IHST 230, OSH 230

This course is an exploration of the basic principles associated with the toxic effects of chemicals on the living organism while examining the regulatory aspects and applications of toxicology in the workplace. Among the topics covered are the potential adverse effects of drugs, pesticides, food additives, and industrial chemicals. \$5 per credit Industrial Health & Safety fee.

OSH 231

Biological Hazards • 5.0 Credits

Formerly IHST 231, OSH 231

This course is intended to familiarize students with a range of biological hazards that may be encountered in community and work environments, including commercial, non-industrial, industrial and healthcare settings, with emphasis on the methods occupational hygienists use to recognize, evaluate, and control microbiological hazards. \$5 per credit Industrial Health & Safety fee.

OSH 233

Fire Protection Systems • 2.0 Credits

Formerly IHST 233, OSH 233

This course is an in-depth study of flammables, combustibles, and their relation to fire prevention. It includes hazard analysis and assessment of establishments relating to the prevention and control of fires, understanding the types of extinguishing systems and the hazards associated with each, and emergency response and evacuation plans. \$5 per credit Industrial Health & Safety fee.

OSH 235

Physical Hazards • 5.0 Credits

Formerly IHST 235, OSH 235

This course is a study of the physical hazards in industry and the methods of workplace design and redesign to control these hazards. Emphasis is on the regulation codes and standards associated with the control of physical hazards. \$5 per credit Industrial Health & Safety fee.

OSH 271

Fundamentals of Industrial Hygiene • 4.0 Credits

Formerly IHST 271, OSH 271

This course is an introduction to the basics of industrial hygiene that includes the anticipation, recognition, evaluation, and control of workplace environmental stressors (chemical, physical, and biological) that can impact the health, comfort, or productivity of the worker. \$5 per credit Industrial Health & Safety fee.

OSH 272

Ergonomics • 4.0 Credits

Formerly IHST 272, OSH 272

This course covers the principles and practices of ergonomics as it applies to the industrial and construction environment. It demonstrates how to collect data on users and operators and how to convert the data to good workplace design. \$5 per credit Industrial Health & Safety fee.

Occupational Safety & Health

OSH 274

Safety Program Management • 5.0 Credits

Formerly IHST 274, OSH 274

This course includes a study of accident cost analysis, recordkeeping standards, reporting, job safety analysis, fundamentals of safety training, and safety management system requirements, training, and implementation. \$5 per credit Industrial Health & Safety fee.

OSH 277

Environmental Management • 5.0 Credits

Formerly IHST 277, OSH 277

This course is an overview of the theories, processes, and applications of natural and technological hazards from a geographic perspective. Topics involve investigation beyond the basic physical processes to include mitigation strategies and emergency management considerations. Some of the subjects include earthquakes, volcanoes, wildfires, floods, tornadoes, hurricanes, winter storms, oil spills, chemical releases, and environmental terrorism. \$5 per credit Industrial Health & Safety fee.

OSH 280

Industrial Instrumentation and Equipment • 5.0 Credits

Formerly IHST 280, OSH 280

This course is an overview of the basic instrumentation used for industrial hygiene readings to include theory of operation, interferences, limitations, proper usage for Direct Reading Instruments (DRIs), Volatile Organic Compound (VOC) Meters, noise measuring, light measuring, heat stress instruments, and miscellaneous monitoring equipment as well as the use of sample pumps and media for source, area, and personal data gathering. \$5 per credit Industrial Health & Safety fee.