

SAFETY TECHNOLOGY



Curriculum Notes

- 45 Hours
- Published: 2003
- Provides instruction on how to implement and administer a company safety program. This manual is designed for field managers, safety directors, safety committees, owner safety representatives, and insurance/loss control representatives.
- Instructor's Guide includes access code to download TestGen software, module exams, and performance profile sheets from www.nccerirc.com.

PAPERBACK (includes all five volumes) ISBN

Participant Guide: \$85 **978-0-13-106258-0**
 Instructor's Guide: \$85 **978-0-13-106259-7**

Product Supplements

Safety PowerPoint® Presentation Slides
 ISBN 978-0-13-163616-3 \$80
 (One CD includes PowerPoints® for Safety Orientation, Field Safety (First Edition), and Safety Technology)

VOLUMES

Each volume is paperback and includes the modules listed. (Note: Modules are not available for individual sale)

V1 SAFETY TECHNOLOGY

VOLUME 1

Participant Guide: \$20 **ISBN 978-0-13-106771-4**
 Instructor's Guide: \$20 **ISBN 978-0-13-106777-6**

Introduction to Safety Technology (2.5 Hours)

(Module ID 75201-03) Describes the roles and responsibilities of the safety technician. Explains three levels of accident causation, accident cost impact, safety program components, and government regulatory requirement impact on the construction industry.

Hazard Recognition, Evaluation, and Control (2.5 Hours)

(Module ID 75202-03) Presents techniques used to recognize hazards, unsafe acts, and unsafe conditions on the job site. Explains how to evaluate acceptable job-site risk levels and introduces the seven major methods of hazard control.

Risk Analysis and Assessment (2.5 Hours)

(Module ID 75203-03) Focuses on the relationship between human behavior and work-site safety. Describes the factors involved in performance analysis and the techniques used to coach and counsel workers with performance problems.

Inspections, Audits, and Observations (2.5 Hours)

(Module ID 75204-03) Introduces the roles and responsibilities of the safety technician with regard to on-site inspections, audits, and observations. Explains the purpose of safety inspections and how to properly conduct safety audits and employee observations.

V2 SAFETY TECHNOLOGY

VOLUME 2

Participant Guide: \$20 **ISBN 978-0-13-106772-1**
 Instructor's Guide: \$20 **ISBN 978-0-13-106778-3**

Employee Motivation (2.5 Hours)

(Module ID 75205-03) Stresses the importance of effectively communicating safety policies and procedures to all employees on the job site. Discusses how to provide employee recognition, discipline, and motivation.

Site-Specific ES&H Plans (2.5 Hours)

(Module ID 75206-03) Environmental Safety and Health (ES&H) plans must be modified to meet job-specific conditions. Explains how to make these modifications, coordinate implementation of ES&H plans, identify job-specific hazards and requirements using pre-bid checklists, and evaluate hazard risks.

Emergency Action Plans (2.5 Hours)

(Module ID 75207-03) Focuses on the basics of emergency action plans and media communications.

JSA's and TSA's (2.5 Hours)

(Module ID 75208-03) Covers the purposes of and differences between job safety analyses and task safety analyses. Explains how to properly conduct safety analyses.

V3 SAFETY TECHNOLOGY

VOLUME 3

Participant Guide: \$20 **ISBN 978-0-13-106773-8**
 Instructor's Guide: \$20 **ISBN 978-0-13-106779-0**

Safety Orientation and Training (2.5 Hours)

(Module ID 75209-03) Covers the basics of safety training program coordination as it teaches participants to effectively implement safety training.

Work Permit Policies (2.5 Hours)

(Module ID 75210-03) Focuses on the roles and responsibilities of the safety technician with regard to work permit policies. Discusses safety technicians' permit-related roles in hot work, confined-space work, excavation work, electrical hot work, and lockout/tagout procedures.

Confined-Space Entry Procedures (2.5 Hours)

(Module ID 75211-03) Stresses the safety requirements of confined-space work. Describes permit, entry, emergency, and rescue procedures. Also covers the main types of atmospheric hazards and the procedures used for testing for them in confined spaces.

Safety Meetings (2.5 Hours)

(Module ID 75212-03) Explains how to effectively communicate safety issues and concerns to workers through safety meetings. Presents methods for using safety meetings to implement corrective actions to unsafe practices and behavior.

V4 SAFETY TECHNOLOGY

VOLUME 4

Participant Guide: \$20 **ISBN 978-0-13-106774-5**
 Instructor's Guide: \$20 **ISBN 978-0-13-106780-6**

Accident Investigation: Policies and Procedures (2.5 Hours)

(Module ID 75213-03) Explains the connection between accident investigation and accident prevention and describes the purposes and uses of accident investigations. Teaches participants to properly conduct accident investigation interviews and fill out related forms.

Accident Investigation: Data Analysis (2.5 Hours)

(Module ID 75214-03) Expands on the concept of accident investigation as a preventative tool. Participants study and practice the methods commonly used for performing accident investigation data analysis.

Recordkeeping (2.5 Hours)

(Module ID 75215-03) Accurate record keeping is essential for OSHA compliance. Participants learn to follow OSHA recordkeeping requirements, and to properly document work-related illnesses and injuries using the appropriate OSHA forms.

V5 SAFETY TECHNOLOGY

VOLUME 5

Participant Guide: \$20 **ISBN 978-0-13-106776-9**
 Instructor's Guide: \$20 **ISBN 978-0-13-106781-3**

OSHA Inspection Procedures (2.5 Hours)

(Module ID 75216-03) Focuses on the safety technician's role during OSHA inspections. Covers the process and purpose of OSHA site inspections. Explains the difference between focused and wall-to-wall inspections, the appropriate follow-up actions resulting from an inspection, and the consequences of OSHA citations, violations, and fines.

ES&H Data Tracking and Trending (2.5 Hours)

(Module ID 75217-03) Describes the traditional and proactive methods of measuring safety performance. Participants learn to analyze data to identify safety program strengths and isolate areas needing improvement.

Environmental Awareness (2.5 Hours)

(Module ID 75218-03) Introduces ways to minimize hazardous-waste production and prevent water and soil contamination. Covers the training and medical surveillance requirements for personnel working with materials such as hazardous waste, lead, asbestos, and silica. Also covered are the primary types of environmental problems and the hazardous-waste shipping requirements common on a construction site.