

## BCT 222 Construction Safety 3 Credits

### Course Description

This course is designed to parallel the 29CFR1926 OSHA Construction Industry Regulations and to conform to the National Center for Construction Education and Research (NCCER). The course covers both the compliance as well as best practices in the construction industry as they pertain to safety. Upon completion of this course online students will receive an OSHA Campus wallet card which will expire in three years.

### Textbook and Materials

#### **OPTIONAL TEXT:** *OSHA 30-Hour Construction Outreach Study Guide*

This new 190 page Study Guide will ensure you are ready to take the final exam to receive your OSHA DOL Card. The Study Guide will assist you throughout the online course and can also be used as a future reference manual.

The manual can be purchased at the following website: <http://www.oshacampus.com/studyguide.cfm>

### Supplementary Material

The following material will be available within the online course:

1. Basic Safety Orientation Student Summary
2. Confined Spaces for General Industry Student Summary
3. Electrical Safety Student Summary
4. Formaldehyde and Needlestick Safety Student Summary
5. General Safety and Health Student Summary
6. I - Hand and Power Tools Basic Student Summary
7. Introduction to OSHA and the OSH ACT Student Summary
8. Ionizing and Non-Ionizing radiation Student Summary
9. L - Scaffolding Student Summary
10. Lead Safety in the Workplace Student Summary
11. M - Fall Protection Student Summary
12. Material Handling Student Summary
13. N - Cranes and Rigging Student Summary
14. Process Safety Management Student Summary
15. OSHA 1926 Subpart D Student Summary
16. OSHA 1926 Subpart F - Fire Protection Student Summary
17. OWG - Motor Vehicles Student Summary
18. P - Excavations Student Summary
19. PPE Student Summary
20. Q - Concrete and Masonry Student Summary
21. Recordkeeping Student Summary
22. STD 3.1-1 Student Summary
23. Use of Explosives in the Workplace Student Summary
24. Welding and Cutting Student Summary
25. X - Stairway and Ladders Basic Student Summary

## Learning Outcomes:

1. Locate OSHA Standards references applicable to specific hazardous conditions and practices (Introduction to OSHA Standards)
2. Recognize the aspects of 1926 Subpart C (General Safety and Health Provisions)
3. Implement preventative measures for accidents in their workplace (Subpart D- Occupational health and Environmental Controls)
4. Describe types of personal protective equipment (PPE), and the requirements for use in OSHA standards (Subpart E- Personal Protective Equipment)
5. Understand the requirements for fire protection in the workplace (Subpart F- Fire Protection and Prevention)
6. Identify types of rigging equipment used to protect employees (Subpart H- Rigging; Subpart N- Cranes and Rigging)
7. Identify the critical health and safety hazards of welding and cutting in the construction industry (Subpart J- Welding and Cutting)
8. Identify common electrical hazards and related OSHA standards (Subpart K- Electrical Standards)
9. Understand the importance of scaffolding for workers in elevated workplaces (Subpart L- Scaffolding)
10. Implement measures for protecting workers and equipment from dangerous falls (Subpart M- Fall Protection)
11. Recognize the hazards associated with working in or around excavation sites (Subpart P- Excavations)
12. Understand the safety requirements necessary to protect workers around concrete and masonry jobs (Subpart Q- Concrete and Masonry)
13. Identify the precautions and hazards to protect workers using explosives or blasting agents (Subpart T- Demolition)
14. Protect workers who perform jobs on or around stairways or ladders at worksites (Subpart X - Stairways and Ladders)
15. List and describe the hazards and prevalence of confined spaces

## Course Policies and Procedures

### Access Policy: Computer Failures and Viruses

Online students must maintain computer access at all times to the online course. Lack of computer access as an excuse for late work or missed exam/quiz will NOT be accepted. Review the [Computer Access Policy](#) to learn how you can take a proactive approach to your online success.

### Student Attendance

This course is different than other NDSCS Online courses ... “attendance” is going to be YOUR responsibility. Although your instructor WILL be able to see your progress – it will be YOUR responsibility to complete the course by the end of the semester! Please START THE COURSE EARLY. Then you will know what pace suits you best!

See the entire NDSCS Attendance Policy at [www.ndscs.edu/online-attendance](http://www.ndscs.edu/online-attendance).

## Grading Scale

For all exams a minimum grade of 70% is required to proceed from one module to the next unit. Your grade in this class will be based on the “module exams” and the final exam. The grade is based on the average of ALL exam grades – not just those above the 70% requirement. So it is best for you to pass each exam with a high score instead of taking exams multiple times.

(Example: If you take an exam the first time and get 20% and take the exam again and get 100% ... your AVERAGE is 60%. Although you will be allowed to proceed in the course – you have a failing average grade!)

All exams may be taken a MAXIMUM of three times if necessary ... if 70% (or more) is not achieved after the third time - the course must be retaken.

All unit "module exams" and the final exam are "open book" exams.

Letter grades will be awarded as follows:

100.00% to 93.00% = A (and certificate of completion is awarded)  
92.99% to 86.00% = B (and certificate of completion is awarded)  
85.99% to 78.00% = C (and certificate of completion is awarded)  
77.99% to 70.00% = D (and certificate of completion is awarded)  
69.99% and below = F (course must be retaken, certificate is NOT awarded)

## Student-Instructor Communications

While an online class is available 24 hours a day and offers greater flexibility for the student and instructor, keep in mind that your instructor will not be available 24 hours a day. Instructors will check email and voicemail messages on a regular basis, but there may be times when they are unavailable due to other commitments and job responsibilities. Email and/or voicemail messages will be responded to as time allows. As a general rule, you can expect your direct questions to be answered within 24 hours during week days.

When sending an email, please include your full name so your instructor knows who they are responding to. Often, the email address does not indicate who is sending the message.

## Student E-Mail Accounts

NDSCS students are to use an NDSCS email account exclusively to ensure the lines of communication with your instructor and NDSCS are not broken, which often happens with other email providers. You can access your email account by following instructions at [www.ndscs.edu/lt-Setup](http://www.ndscs.edu/lt-Setup). If you need help accessing your NDSCS email, contact the NDSCS IT Service Desk at 800-342-4325 ext 3333 or [ndscs.servicedesk@ndscs.edu](mailto:ndscs.servicedesk@ndscs.edu).

To make your NDSCS email account your preferred email address, log into your CampusConnection account and check the “preferred” box by campus email.

The NDSCS e-mail system provides students with an entire suite of services such as:

- 10 GB storage for email
- Instant messaging through Skype for Business
- Rich calendaring

- Photo sharing
- Multi-browser support
- SMS alerts to mobile phones

### **Disabilities and Special Needs**

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the **Student Accessibility Coordinator** (phone 671-2623, or toll-free 1-800-342-4325 ext. 3-2623) as early as possible in the term.