


Core: Introduction to Basic Construction Skills

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| CORE | |
|  | INTRODUCTION TO BASIC CONSTRUCTION SKILLS |
| Curriculum Notes | |
| <ul style="list-style-type: none"> • Revised: 2021, Sixth Edition • Downloadable instructor resources that include module tests, PowerPoints®, and performance profile sheets are available at www.nccer.org/irc. • A Spanish translation of the fifth edition is available. Please see NCCER's online catalog for more information. | |
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MODULES

The modules listed below are included in the Trainee Guide. The following ISBNs are for ordering individual modules only.

Build Your Future in Construction *(Elective)*

ISBN 978-0-13-748338-9

(Module ID 00100) Construction is an exciting, well-paying industry that offers an abundance of career opportunities. With a growing need for individuals who are ready to learn while getting paid, it provides a great fit for people of all backgrounds, skills, and strengths. Carpenter, pipefitter, welder, electrician, and crane operator are just a few of the construction professions in high demand. This module will help you understand the state of the industry, the job opportunities that currently exist, and the training options that will lead you on a path to your new construction career.

Basic Safety (Construction Site Safety Orientation)

ISBN 978-0-13-748353-2

(Module ID 00101) Work at construction and industrial job sites can be hazardous. Most job-site incidents are caused by at-risk behavior, poor planning, lack of training, or failure to recognize the hazards. To help prevent incidents, every company must have a proactive safety program. Safety must be incorporated into all phases of the job and involve employees at every level, including management.

Introduction to Construction Math

ISBN 978-0-13-748343-3

(Module ID 00102) Craft professionals rely on math to do their jobs accurately and efficiently. Plumbers calculate pipe lengths, plan drain slopes, and interpret dimensioned plans. Carpenters meet code requirements by using math to frame walls and ceilings properly. HVAC professionals develop ductwork and calculate airflow with practical geometry. Whichever craft lies in your future, math will play a role in it. This module reviews the math that you will need and sharpens the skills that you will be using in the exciting modules ahead.

Introduction to Hand Tools

ISBN 978-0-13-748345-7

(Module ID 00103) Every profession has its tools. A surgeon uses a scalpel, an instructor uses a whiteboard, and an accountant uses a calculator. The construction crafts require a broad array of hand tools. Even if you are familiar with some of the tools, all craftworkers need to learn how to select, maintain, and use them safely. A quality hand tool may cost more up front, but if it is properly used and maintained, it will last for years. A true craft professional invests wisely in hand tools, and uses, maintains, and stores them with the same wisdom.

Introduction to Power Tools

ISBN 978-0-13-748348-8

(Module ID 00104) Power tools play an important role in the construction industry. Thousands of construction workers across the world use power tools every day to make holes, cut different types of materials, smooth rough surfaces, and shape a variety of products. Regardless of their specialization, all construction workers eventually use power tools on their job. This module provides an overview of the common types of power tools and how they function. It also describes the proper techniques required to ensure their safe and efficient operation.

Introduction to Construction Drawings

ISBN 978-0-13-748352-5

(Module ID 00105) Various types of construction drawings are used to represent actual components of a building project. The drawings provide specific information about the locations of the parts of a structure, the types of materials to be used, and the correct layout of the building. Knowing the purposes of the different types of drawings and interpreting the drawings correctly are important skills for anyone who works in the construction trades. This module introduces common types of construction drawings, their basic components, standard drawing elements, and measurement tools that are typically used when working with construction drawings.

Introduction to Basic Rigging *(Elective)*

ISBN 978-0-13-412905-1

(Module ID 00106) A common activity at nearly every construction site is the movement of material and equipment from one place to another using various types of lifting gear. The procedures involved in performing this task are known as rigging. Not every worker will participate in rigging operations, but nearly all will be exposed to it at one time or another. This module provides an overview of the various types of rigging equipment, common hitches used during a rigging operation, and the related Emergency Stop hand signal.

Basic Communication Skills

ISBN 978-0-13-412899-3

(Module ID 00107) The construction professional communicates constantly. The ability to communicate skillfully will help to make you a better worker and a more effective leader. This module provides guidance in listening to understand, and speaking with clarity. It explains how to use and understand written materials, and it also provides techniques and guidelines that will help you to improve your writing skills.

Basic Employability Skills

ISBN 978-0-13-412896-2

(Module ID 00108) Becoming gainfully employed in the construction industry takes more preparation than simply filling out a job application. It is essential to understand how the construction industry and potential employers operate. Your trade skills are extremely important, but all employers are also looking for those who are eager to advance and demonstrate positive personal characteristics. This module discusses the skills needed to pursue employment successfully.

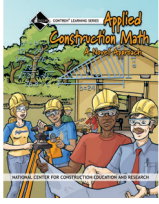
Introduction to Materials Handling

ISBN 978-0-13-412892-4

(Module ID 00109) Lifting, stacking, transporting, and unloading materials such as brick, pipe, and various supplies are routine tasks on a job site. Whether performing these tasks manually or with the aid of specialized equipment, workers must follow basic safety guidelines to keep themselves and their co-workers safe. This module provides guidelines for using the appropriate PPE for the material being handled and using proper procedures and techniques to carry out the job.

Continued on following page

Applied Construction Math



A Novel Approach

Published: 2006

PAPERBACK

ISBN

Trainee Guide: \$34.99

978-0-13-227298-8

Applied Construction Math: A Novel Approach features a story that students can relate to and math skills they never thought they could grasp. Its innovative style motivates students to follow the lessons by associating math with events they may encounter in their own lives. Students will see that learning math can be exciting as they follow along with Mr. Whyte and his construction class while they build the perfect house. Thirteen chapters teach basic math skills, including:

- Division
- Decimals/Percentages
- Reading Measurements
- Calculating Area
- Powers of Ten
- Linear Measure, Angles, Volumes, Pressure, and Slopes
- Solving for Unknowns
- Square Inches, Feet, and Yards
- Volume

Enhance your construction training with these supplemental *Core* companions. The following titles are excellent resources for your existing program. They can be used on a standalone basis or in combination with *Core*.

Basic Safety

Construction Site Safety Orientation

12.5 Hours
Revised: 2021
Module ID 00101

PAPERBACK

ISBN

Trainee Guide: \$24.99

978-0-13-748353-2

This module, from *Core*, replaces the *Safety Orientation* book. See the module description above for more information.

Tools for Success



Critical Skills for the Construction Industry

Revised: 2009,
Third Edition

PAPERBACK

ISBN

Trainee Workbook: \$34.99

978-0-13-610649-4

This workbook is designed for employees entering the construction industry and has been reviewed and updated with input from construction and training professionals. The Instructor's Handbook includes an annotated instructor's outline, recommended teaching schedules, answers to quizzes, and tips and ideas for enhancing class activities.

Your Role in the Green Environment



15 Hours
Updated: 2019
Module ID 70101

PAPERBACK

ISBN

Trainee Guide: \$34.99

978-0-13-670120-0

- Downloadable instructor resources that include module tests, PowerPoints®, and performance profile sheets are available at www.nccer.org/irc.