



Module and Craft Identification Numbers

Product Design and Supplements

Each craft area comprises successive levels, and each level comprises individual units of study called modules. Modules can be treated as separate task-training units because each one contains objectives as well as knowledge and performance tests. Instructors may teach a single module or the entire craft level and even customize their own training programs by combining modules across various craft areas. Customization is easy and cost-effective.

Course Planning Tools

The following product supplements are available at no cost in the curriculum section at www.nccer.org:

- **Competencies/Objective Lists** – Includes all competencies and comprehensive learning objectives for each craft.
- **Performance Profiles** – Correlates to the performance tasks of NCCER curricula and can be used to provide record keeping where documentation of training is required.
- **Equipment and Material Lists** – Includes all of the equipment and materials required to teach each module.
- **Course Maps** – Tracks revised modules, records new module numbers and shows how modules may have been incorporated into revisions or indicates if they have been deleted.

Module ID Numbers

Here's an easy way to read NCCER's Module ID numbers:

29102-17

The two-digit prefix (29) indicates the craft identifier (Welding).

The three digits before the hyphen are unique module identifiers.

The two-digit suffix (17) indicates the year of publication.

Craft Identifiers

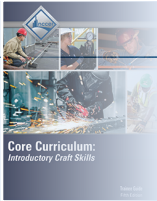
The first two digits of the Module Identification Number indicate the "parent" or source craft of that module. All NCCER Craft Identifiers are listed below.

Alternative Energy.....74	Hydroblasting 43	Pipeline Control Center Operations.....65	Power Line Worker: Transmission 81
Boilermaking..... 34	Industrial Coatings.....69	Pipeline Core 66	Plumbing..... 02
Carpentry..... 27	Industrial Maintenance Mechanic 32	Pipeline Corrosion Control.....61	Project Management..... 44
Concrete Finishing..... 23	Industrial Maintenance E & I 40	Pipeline Electrical & Instrumentation... 64	Project SupervisionMT200
Construction Craft Laborer35	Instrumentation12	Pipeline Field Operations, Gas.....67	Reinforcing Ironwork 39
Construction Technology..... 68	Ironworking 30	Pipeline Field Operations, Liquid 60	Rigging.....38
Control Center Abnormal Operating Conditions.....71	Maritime Industry Fundamentals..... 84	Pipeline Maintenance.....62	Safety.....75
Core Curriculum 00	Maritime Pipefitting.....85	Pipeline Mechanical 63	Scaffolding31
Drywall.....45	Maritime Structural Fitter 86	Power Industry Fundamentals..... 49	Sheet Metal..... 04
Electrical..... 26	Masonry 28	Power Generation Maintenance Electrician 50	Signal Person..... 53
Electronic Systems Technician 33	Mechanical Insulating.....19	Power Generation I&C Maintenance Technician51	Site Layout.....78
Field Abnormal Operating Conditions ...71	Millwright15	Power Generation Maintenance Mechanic52	Solar Photovoltaic Installation..... 57
Fundamentals of Crew Leadership..... 46	Mobile Crane Operations.....21	Power Line Worker Level One.....49	Sprinkler Fitting.....18
Green/Sustainable Construction.....70	Painting (Commercial/Residential)..... 07	Power Line Worker: Distribution..... 80	Tower Crane..... 48
Heavy Equipment Operations..... 22	Pipefitting..... 08	Power Line Worker: Substation..... 82	Weatherization 59
Heavy Highway Construction..... 36	Pipelayer24		Welding 29
HVAC 03	Pipeline Abnormal Operating Conditions.....71		Wind Turbine Maintenance Technician 58



CORE CURRICULUM

INTRODUCTORY CRAFT SKILLS



Curriculum Notes

- *Core Curriculum* is a prerequisite to most Level 1 completions and must be purchased separately.
- 72.5 Hours (plus 7.5 Elective/Optional Hours)
- Revised: 2015, Fifth Edition
- New printed Instructor's Package includes lesson plans and instructor's copy of Trainee Guide with access code to download TestGen software, module exams, PowerPoints®, and performance profile sheets from www.nccerirc.com.
- A Spanish translation of the fifth edition is available. Please see NCCER's online catalog for more information.
- A basic construction math workbook with practice problems is included with the Instructor's Package.

HARDCOVER ISBN

Trainee Guide: \$57 **978-0-13-413143-6**

PAPERBACK ISBN

Trainee Guide: \$54 **978-0-13-413098-9**

Instructor's Package: \$54 **978-0-13-429634-0**

NCCERconnect Access Card: \$54 **978-0-13-423592-9**

NCCERconnect + Hardcover Trainee Guide: \$82 **978-0-13-428567-2**

NCCERconnect + Paperback Trainee Guide: \$79 **978-0-13-439192-2**

MODULES

All of the modules listed below are included in the Trainee Guide and the Instructor's Package. The following ISBN and pricing information is for ordering individual modules only.

Basic Safety (Construction Site Safety Orientation) (12.5 Hours)

Trainee \$20 **ISBN 978-0-13-407556-3**
Instructor \$20 **ISBN 978-0-13-412939-6**

(Module ID 00101-15) Presents basic jobsite safety information to prepare workers for the construction environment. Describes the common causes of workplace incidents and accidents and how to avoid them. Introduces common personal protective equipment, including equipment required for work at height, and its proper use. Information related to safety in several specific environments, including welding areas and confined spaces, is also provided.

Introduction to Construction Math (10 Hours)

Trainee \$20 **ISBN 978-0-13-413164-1**
Instructor \$20 **ISBN 978-0-13-414999-8**

(Module ID 00102-15) Reviews basic math skills related to the construction trades and demonstrates how they apply to the trades. Covers multiple systems of measurement, decimals, fractions, and basic geometry.

Introduction to Hand Tools (10 Hours)

Trainee \$20 **ISBN 978-0-13-412937-2**
Instructor \$20 **ISBN 978-0-13-412886-3**

(Module ID 00103-15) Introduces common hand tools used in a variety of construction crafts. Identifies tools and how to safely use them. Also presents proper hand tool maintenance.

Introduction to Power Tools (10 Hours)

Trainee \$20 **ISBN 978-0-13-412901-3**
Instructor \$20 **ISBN 978-0-13-412902-0**

(Module ID 00104-15) Identifies and describes the operation of many power tools common in the construction environment. Provides instruction on proper use, as well as safe-handling guidelines and basic maintenance.

Introduction to Construction Drawings (10 Hours)

Trainee \$20 **ISBN 978-0-13-412903-7**
Instructor \$20 **ISBN 978-0-13-412904-4**

(Module ID 00105-15) Introduces the basic terms, components, and symbols of construction drawings, as well as the most common drawing types. Also covers the interpretation and use of drawing dimensions.

Introduction to Basic Rigging (7.5 Elective Hours)

Trainee \$20 **ISBN 978-0-13-412905-1**
Instructor \$20 **ISBN 978-0-13-412900-6**

(Module ID 00106-15) Provides basic information related to rigging and rigging hardware, such as slings, rigging hitches, and hoists. Emphasizes safe working habits in the vicinity of rigging operations.

Basic Communication Skills (7.5 Hours)

Trainee \$20 **ISBN 978-0-13-412899-3**
Instructor \$20 **ISBN 978-0-13-412898-6**

(Module ID 00107-15) Provides techniques for effective communication on the job. Includes examples that emphasize the importance of both written and verbal communication skills. Describes the importance of reading skills in the construction industry and discusses effective telephone and email communication skills.

Basic Employability Skills (7.5 Hours)

Trainee \$20 **ISBN 978-0-13-412896-2**
Instructor \$20 **ISBN 978-0-13-412895-5**

(Module ID 00108-15) Describes the opportunities offered by the construction trades. Discusses critical thinking and essential problem-solving skills. Also identifies and discusses positive social skills and presents information on computer systems and their industry applications.

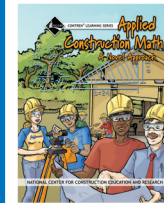
Introduction to Material Handling (5 Hours)

Trainee \$20 **ISBN 978-0-13-412892-4**
Instructor \$20 **ISBN 978-0-13-412887-0**

(Module ID 00109-15) Describes the hazards associated with handling materials and provides techniques to avoid both injury and property damage. Also introduces common material-handling equipment.

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

Applied Construction Math



A Novel Approach

Published: 2006

PAPERBACK ISBN

Trainee Guide: \$30 **978-0-13-227298-8**

Instructor's Edition: \$30 **978-0-13-227300-8**

(includes Resource CD)

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

Basic Safety



(Construction Site Safety Orientation)

12.5 Hours
Revised: 2015
Module ID 00101-15

PAPERBACK ISBN

Trainee \$20 **978-0-13-407556-3**

Instructor \$20 **978-0-13-412939-6**

This module, from *Core Curriculum*, replaces the *Safety Orientation* book. See the module description located in the left column of this page for more information.