



# IM8

**Bid ID#: 1438**

**Course# - Course Title: 9204410 - Welding Technology Fundamentals 1**

**AUTHORS & CREDENTIALS: LIST FULL NAME OF AUTHOR(S), WITH MAJOR OR SENIOR AUTHOR LISTED FIRST. BRIEFLY PROVIDE CREDENTIALS FOR EACH AUTHOR.**

NCCER Welding Level 1 is authored by The National Center for Construction Education and Research (NCCER) in conjunction with subject matter experts from the construction industry and construction educators. NCCER is an independent 501(c)(3) nonprofit education foundation and the leading provider of construction education for industry and career and technical education programs. With flexible workforce development and learning solutions, NCCER's programs provide consistency and quality to ensure craft professionals and learners receive industry-recognized credentials and certifications.

**STUDENTS: DESCRIBE THE TYPE(S) OF STUDENTS FOR WHICH THIS SUBMISSION**

The program is designed for students interested in a career in welding.

**1. LIST THE FLORIDA DISTRICTS IN WHICH THIS PROGRAM HAS BEEN PILOTED IN THE LAST EIGHTEEN MONTHS.**

This program has not been piloted in Florida over the last 18 months.

**2. HOW ARE YOUR DIGITAL MATERIALS SEARCHABLE BY FLORIDA'S ACADEMIC STANDARDS (SECTION 1006.33(1)(e), FLORIDA STATUTES)?**

A correlation to Florida standards with links to content citations is provided in the Instructor Resources section of the NCCERconnect digital companion.

**3. IDENTIFY AND DESCRIBE THE COMPONENTS OF THE MAJOR TOOL.**

**Educational Approach:**

The sixth edition of NCCER *Welding Level 1* presents each revised module through a user-friendly instructional design which organizes the material efficiently and in a logical sequence. The images and diagrams have also been updated to exemplify the most current welding practices, with special emphasis on safety. Welding Level One aligns with the current standards in American Welding Society's School Excelling through National Skills Education (SENSE) EG2.0 guidelines for Entry Welder. In addition to conforming to NCCER guidelines for Welding credentialing through the NCCER Registry, this program can also be used to meet guidelines provided by AWS for Entry Welder training.

## About the Sixth Edition

NCCER *Welding Level 1* has been thoroughly revised to meet the modern, changing needs of today's welding trainees.

- Special emphasis on welding safety
- The Performance Tasks give students an opportunity to apply their knowledge to real-world tasks.
- QR codes embedded in the text link students to informative videos that highlight current content.
- Step-by-step math equations help make the concepts clear and easy to grasp.
- Images and infographics reflect cutting-edge welding practices and clarify skills.
- Chapter updates by industry experts
- Aligned with American Welding Society's standards.
- Prepare students for industry-recognized certification.

NCCERconnect *Welding Level 1* is a digital learning platform that provides tutorials, digital media, homework activities, and assessment solution designed enable teachers to customize instruction to an entire class or individual students. The NCCERconnect offers an embedded etext as well as course management functions including gradebook, assignment manager, data and analytics, all supporting an engaging online learning experience and individualized instruction.

## Major Tool - Student Components

The Major Tool, student components, consists of the Student Edition (printed textbook) and the NCCERconnect digital companion.

- The Student Edition (484 pages, four color, NASTA bound) consists of twelve modules and an appendix.
- NCCERconnect digital platform including additional instruction, activities, digital media, and assessments.

## Major Tool - Teacher Components

n/a

## 4. IDENTIFY AND DESCRIBE THE ANCILLARY MATERIALS.

### Ancillary Materials - Student Components

n/a

### Ancillary Materials - Teacher Components

- Lesson Plans (downloadable PDF) include completion time estimates per module.
- Downloadable Classroom Presentations in PowerPoint and Articulate Rise
- Performance Profile Sheets (downloadable PDF) for tracking proper completion of each procedure.
- Practice Exams (downloadable PDF) – multiple choice questions with explanations used to prepare students for the NCCER Core certification exam.

## 5. IDENTIFY WHICH INDUSTRY STANDARD PROTOCOLS ARE UTILIZED FOR INTEROPERABILITY?

The NCCERconnect learning platform is IMS Global / 1 Ed Tech, 1.3 compatible.

A list of learning management platforms that can be integrated with NCCERconnect and other information on integration services can be found at <https://www.pearson.com/en-us/higher-education/educators/digital-learning-platforms/lms-integration-services.html>.

## **6. HOW MUCH INSTRUCTIONAL TIME IS NEEDED FOR THE SUCCESSFUL IMPLEMENTATION OF THIS PROGRAM?**

Using the Student Edition, Student Activity Guide, and additional activities in the NCCERconnect, there are over one hundred fifty hours of instruction available to the teacher. However, the program is designed for flexible implementation and the teacher can customize the instruction to fit a variety of course lengths.

## **7. WHAT PROFESSIONAL DEVELOPMENT IS AVAILABLE?**

There is no formal Professional Development program available for this program. However, the editorial staff is available to help with content questions implementation issues. Technical support is available at this website <https://support.pearson.com/getsupport/s/contactsupport>.

## **8. WHAT HARDWARE/EQUIPMENT IS REQUIRED?**

The NCCERconnect platform can be accessed by any device connected to the Internet. A list of compatible browsers and their system requirements is available here: <https://support.pearson.com/getsupport/s/article/Using-an-Alternate-Supported-Browser>.

## **9. WHAT LICENSING POLICIES AND/OR AGREEMENTS APPLY?**

Terms of Use and End User License Agreement are available at the following link: <http://tpi.pearsoncmg.com/tpi/w3c/license.jsp>.

## **10. WHAT STATES HAVE ADOPTED THE SUBMISSION?**

The program is widely used in secondary schools throughout the United States.

## **11. WHAT OPEN EDUCATIONAL RESOURCES RELATED TO THIS BID DO YOU MAKE AVAILABLE(S)?**

There are no Open Educational Resources associated with this program.

## **12. ALTHOUGH NOT CALLED FOR IN THE STATE ADOPTION, DO YOU HAVE ADVANCED PLACEMENT (AP) OR ACCELERATED PROGRAM INSTRUCTIONAL MATERIALS AVAILABLE FOR THE COURSE(S) BID FOR ADOPTION?**

There are no AP materials associated with this or other CTE courses bid into this adoption.

## **13. WHAT, IF ANY, FOREIGN LANGUAGE TRANSLATIONS DO YOU HAVE AVAILABLE?**

None.

## **14. DO YOU PROVIDE ACCESS POINT SCAFFOLDING OR AN ACCESS POINT CORRELATION UPON REQUEST?**

Not applicable - Access Points are not developed for this course.

## **15. ESSA LEVELS OF EVIDENCE**

While no formal efficacy studies have been conducted on the program, NCCER is highly regarded as the leading certification organization in the construction industry. Welding Level 1 is in its sixth edition and has been used successfully by thousands of students nationwide for over twenty years.