

Welding Technology Learning System

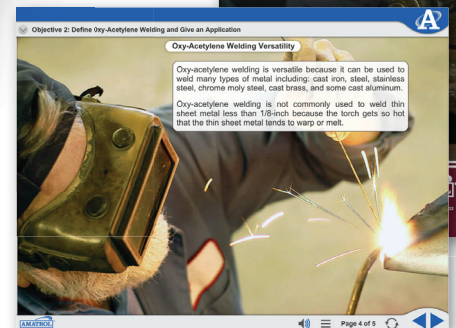
950-WT1

Mp

MANUFACTURING
PROCESSES



950-WT1 Learning System



Interactive Multimedia and Student Reference Guide

Learning Topics:

- Welding Safety
- Metal Preparation
- Basic Welding
- Weld Components
- Weld Quality Joints: Lap, Butt, T, Corner
- Destructive Testing
- Non-Destructive Testing
- Welding Symbols

Welding plays a critical role throughout our economy. It is central to many industries including manufacturing, construction, and aerospace to name only a few. Welding is a blend of both art and science, joined together to create enduring bonds that allow us to create structures and machines on a scale impossible to achieve without it. The 950-WT1 teaches how to safely create an array of high quality weld types.

Amatrol's 950-WT1 Welding Technology Learning System consists of a workstation with a self-contained down-draft table and angle grinder, storage station, gas metal arc welder (GMAW), weld test fixture, tools and fixtures, safety gear, student curriculum and teacher's assessment guide. The 950-WT1 is mobile with both the workstation and storage unit designed for classroom use. These industrial-grade components are an example of Amatrol's commitment to providing top-flight equipment and gives learners the opportunity to practice and gain experience on actual mechanisms that they'll work with on the job.



Technical Data

Complete technical specifications available upon request.

Welding Workstation

- Magnetic removable stainless steel top
- Self-contained down draft
- 18" x 24" x 4" nominal filters (2)
- 115 VAC single phase

Welding storage unit

- Powder coated steel
- Lockable storage cabinets for loose components
- Mobile with locking casters

GMAW Welder

- 230 VAC single phase or 208 3-phase
- Welding tips (10)

Weld Test Fixture

Angle Grinder

- Grinding wheel
- Wire brush grinding wheel

Tools and Fixtures

- MIG pliers
- Vise grip 6" C clamps w/ tips (4)
- 4" C clamps (3)
- Magnetic square clamps (4)
- 18" tool box
- Dye-penetrant, 16 oz.
- Dye-cleaner, 16 oz.
- Dye-developer, 16 oz.
- Cleaner/degreaser
- 22 oz. spray bottle

Safety Gear

- Vented goggles (2)
- Welding gloves (2)
- Welding apron
- Welding sleeves
- Solar powered auto dark welding helmets (2)
- Yellow, movable, free standing welding curtains (4)

Multimedia (M12213)

Instructors Guide (I2223)

Installation Guide (I2233)

Student Reference Guide (H12213)

Additional Requirements:

- 94-RM15 Base metal kit
 - 1/8" x 3" x 6" steel bar (50)
 - Tubing, 1-1/2" outside diameter x 8" length x 1/8" width (10)
- 94-RM16 Flag holder project kit
 - 1/8" x 3" x 3" steel bar (4)
 - 1/8" x 3" x 3" steel bar (4)
 - Tubing, 1-1/4" outside diameter x 6" length x 1/8" width with 45 degree angle cut (2)
- Parts for consumables
- Workable with vise
- Gas cylinders (75% argon, 25% carbon dioxide)

Utilities:

- 110 V/60 Hz/1 PH electrical power
- 220 V/60 Hz/1 PH
- 208 V/60 Hz/1 PH with an adapter

Industrial Grade Components for Real-World Training

The 950-WT1 features a magnetic stainless steel; top workstation, turnkey storage station, GMAW welder, safety equipment, and free-standing welding curtains. The workstation top is removable for easy cleanup, and made of magnetic stainless steel to withstand the rigors of student welding, while allowing the use of magnetic clamps.

The built-in down-draft system contains filters designed to capture the welding smoke. The turnkey storage station provides lockable, mobile storage for tools/fixtures, gas cylinder, and safety gear needed. The GMAW welder provides an industrial quality experience while being very portable, and comes with a wide assortment of safety gear.



950-WT1 Magnetic, Removable Stainless Steel Top Workstation



950-WT1 Portable GMAW Welder

Amatrol supplies these industrial-grade, top-flight components in order to give the learner the opportunity to work with real-world mechanisms and gain experience they would normally only acquire on the job.

Welding Technology Curriculum in an Interactive Multimedia Format

The 950-WT1 curriculum specifically focuses on welding safety, basic welding, welding joints and welding analysis. As an example of what is covered, learners will study the angle grinder operation, workpiece preparation, welder setup and adjustment, tack and butt joint welds, weld components and welding flaws, lap, corner, and t-joints, round stock, and welding symbols. The interactive multimedia engages learners and helps keep them focused on their studies using animation, interactive activities, and video.



Interactive Multimedia

Student Reference Guide

A sample copy of the Welding Technology Learning System Student Reference Guide is included with the learning system. Sourced from the multimedia curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfect-bound book. If you would like to inquire about purchasing additional Student Reference Guides for your program, contact your local Amatrol Representative for more information.

