St	andard 1—Purpose		
	The welding technology training program shall have clearly stated program goals related to the needs of the students and employers served.		
1.1	Program Goals		
A.	The welding technology program has clearly stated goals.	Yes	No
Re	ference Materials in support of subclause 1.1:		
_	To the Thomas of the second December 2.		
1.2	Level of Training and Employment Potential		
A.	The institution surveys employers annually to determine the skills and knowledge required by prospective employees.	Yes	No
B.	The institution conducts an annual survey to determine the percentage of students who complete the welding program, who obtain employment in the welding Industry, or who continue their welding technology education.	Yes	No
Re	ference Materials in support of subclause 1.2:		
1.3	Program Description/Goals		
A.	Course catalogs, brochures and other program materials include:		
	1. Admission requirements for the welding program.	Yes	No
	2. Employment potential in welding and related fields.	Yes	No
	3. Areas of welding training offered.	Yes	No
	4. Cost of tuition and fees.	Yes	No

	5. Technical qualifications of the instructional staff.	Yes	No
	6. Overall goals of the program.	Yes	No
В	Course catalogs, brochures and other program materials are available to individuals prior to enrollment (print, online, etc.).	Yes	No
	Reference Materials in support of subclause 1.3:		
			_
	Standard 2—Administration		
	Program administration shall ensure that instructional activities support and programs goals of the program.	note the	<b>:</b>
2.1	1 Student Knowledge and Skills		
A	The certification, certificate or diploma that a student receives upon program completion clearly specifies the area(s) of demonstrated achievement.	Yes	No
	Reference Materials in support of subclause 2.1:		
			<del>-</del>
2.2	2 Quality Assurance (QA) Manual		
A	The welding program has an up-to-date QA manual that identifies program personnel and their roles, as well as procedures for purchasing, material control, performance qualification testing, documentation and reporting.	Yes	No
	Reference Materials in support of subclause 2.2:		
			<del>.</del>

### 2.3 Chain of Command The institution has an up-to-date organizational chart. Yes No B. The organizational chart clearly designates responsibilities for administration, No instruction, and support services. **Reference Materials in support of subclause 2.3:** 2.4 Administrative Support A. Provisions have been made for instructors to return to industry for planned in-Yes No service and update training on a regular basis. B. The program is supplied with adequate tools, equipment, and consumables to No meet program goals and objectives. C. There is demonstrated administrative support for ongoing curriculum review Yes No and revision. D. Institution administration involves program faculty in preparation of the Yes No annual budget. E. The facilities are appropriate and adequate for the training offered. Yes No **Reference Materials in support of subclause 2.4:** 2.5 Written Policies A. Written policies regarding student and institutional responsibilities have been Yes No approved by the administrative and/or policy board. B. Written policies regarding safety, liability, and lab/shop operation are Yes No prominently displayed in the lab/shop area. C. Written policies are provided to each student and instructor. Yes No **Reference Materials in support of subclause 2.5:**

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2.6	Advisory Committee		
A.	The welding program has an Advisory Committee consisting of at least five (5) members.	Yes	No
B.	The Advisory Committee convenes a minimum of two (2) working meetings per year, with at least five (5) members in attendance, excluding school personal.	Yes	No
C.	As evidenced in committee meeting minutes, the Advisory Committee provides input on program improvements.	Yes	No
D.	The mix of committee members is representative of the range of industries in the community that involve welding.	Yes	No
-	Reference Materials in support of subclause 2.6:		
2.7	Public/Community Relations		
A.	There is a public relations plan to provide the community with information regarding the welding training program, its graduates, its plans, and any services provided to the community.	Yes	No
]	Reference Materials in support of subclause 2.7:		_
_			_
2.8	Customer Projects		
A.	The institution accepts customer projects for instructional purposes.	Yes	No
В.	The institution has a system for collecting, documenting, and disbursing customer project receipts.	Yes	No
C.	Support personnel are responsible for collecting payment for customer projects, so that instructors do not become involved in the accounts receivable process.	Yes	No
]	Reference Materials in support of subclause 2.8:		
-			<u> </u>

5	Standard 3—Learning Resources		
	Support material consistent with program goals and performance objectives shall to staff and students.	be ava	ilable
.1	Multimedia		
Α.	The multimedia technology used in the training process is appropriate and upto-date (software, DVDs, videos, etc.).	Yes	No
В.	Multimedia materials for instructional purposes are readily available and used in the training process.	Yes	No
I	Reference Materials in support of subclause 3.1:		_
_			_
.2	Instructional Development Services		
Α.	Equipment and supplies are available for instructor use to develop and duplicate materials and produce electronic slides (e.g. PowerPoint slides).	Yes	No
I	Reference Materials in support of subclause 3.2:		_
L			_
.3	Periodicals		
<b>4</b> .	General and technical welding periodicals are current and available for use by students and instructors.	Yes	No
I	Reference Materials in support of subclause 3.3:		
-			_
-			_

3.4	Student Materials		
A.	Instructional texts, workbooks and pertinent materials based on program objectives are available for each student.	Yes	No
B.	Texts and workbooks have copyright dates no more that five (5) years old.	Yes	No
C.	Copyright permissions for copied materials have been obtained where appropriate.	Yes	No
D.	Copies are of high quality.	Yes	No
-	Reference Materials in support of subclause 3.4:		_
	Standard 4—Finances		
1	Adequate funding shall be provided to meet program goals and performance object	ctives.	
↓ 4.1	Program Training Cost		
A.	The per-student training fee for the program is adequate, based on the number of students enrolled in the program, and the annual program budget. (Consider expenses such as consumable supplies, instructor development, curriculum development, environmental and other program contract services, amortized capital equipment, etc.)	Yes	No 🗌
]	Reference Materials in support of subclause 4.1:		
-			<del>-</del> -
1.2	Budget		
A.	The annual budget is adequate for effective program operations.	Yes	No
]	Reference Materials in support of subclause 4.2:		
-			_
-			_

# **Standard 5—Student Services** Systematic skills assessment, interviews, counseling services, individual differences, placement, and follow-up procedures shall be used. **5.1** Basic Skills Assessment A. The program offers adequate pre-assessment to determine if students possess Yes No adequate mechanical and physical aptitude, as well as basic skills in reading, math, science, and communication arts. B. An explanation of testing procedures, and how test results will be used, is Yes No included in the program explanatory materials, and is available to all interested parties. C. There is written justification available for all basic skill requirements. Yes No D. Support services are available for immediate use by instructors to provide for Yes No individual student needs. **Reference Materials in support of subclause 5.1:** 5.2 Pre-Admission Counseling A. Prior to program admission, prospective students are counseled on careers in No welding, as well as physical job requirements. **Reference Materials in support of subclause 5.2: 5.3 Student Records** A. Student records are maintained in accordance with state and federal No requirements. **Reference Materials in support of subclause 5.3:**

A.	The placement system used to assist students in obtaining employment in the welding industry upon graduation is adequate.	Yes	No
<b>5.4</b>	Placement		
Re	eference Materials in support of subclause 5.4:		
5.5	Annual Follow-Up		
A. B.	A formal annual follow-up system is used to collect student employment data.  The annual follow-up system is used to obtain student assessment of the efficiency and effectiveness of their training, and to obtain feedback regarding additions and deletions to the program, curriculum, tools, and equipment.	Yes Yes	No No
C.	The annual follow-up system used to obtain information from program graduates employed outside the welding industry indicates reasons for non-welding employment.	Yes	No
D.	Information from annual follow-up procedures is used to modify the training program.	Yes	No
E.	Student feedback and employment data are available to the program instructor(s) and to the Advisory Committee to determine the need to make additions and deletions to the curriculum, tools, and equipment for the welding program.	Yes	No
- -	Reference Materials in support of subclause 5.5:		
5.6	Legal Requirements		
A.	The welding training program complies with applicable local, state, and federal requirements.	Yes	No
	Reference Materials in support of subclause 5.6:		
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**Standard 6—Instruction** 

# Instruction must be systematic and reflect program goals. A task list (key indicator list), and specific performance objectives with criterion-reference measures must be used. 6.1 Program Plan A. There is a training plan for the welding program. Yes No B. The training is logically sequenced. Yes No C. The training plan is available to each student. Yes No **Reference Materials in support of subclause 6.1: 6.2** Student Training Plan A. There is a training plan for each student with individual differences. Yes No B. Each individual training plan indicates the student's training goals and the No Yes special steps needed to meet those goals. C. Each student with individual differences is given a copy of their training plan. Yes No **Reference Materials in support of subclause 6.2: 6.3** Preparation Time A. The instructor's schedule provides adequate time for planning. No **Reference Materials in support of subclause 6.3:**

# 6.4 Instructor/Student Ratio The instructor/student ratio and class contact hours allow time for interaction No on a one-to-one basis. **Reference Materials in support of subclause 6.4:** 6.5 Curriculum A. Lesson plans include relevant theory as well as hands-on activities. Yes No B. Lesson plans contain objectives based on Key Indicators (tasks) from the Yes No SENSE curriculum guidelines for the level(s) being taught (Level I—Entry Welder, Level II—Advanced Welder, Level III—Expert Welder). **Reference Materials in support of subclause 6.5:** 6.6 Student Progress A. A progress chart or other record keeping tool is used to indicate performance Yes No of tasks required for successful unit/program completion. B. The progress chart shows the degree to which students have mastered required Yes No tasks. **Reference Materials in support of subclause 6.6: 6.7** Performance Standards A. A required performance level is stated for each task. Yes No B. Performance standards are given to each student, and made available to Yes No potential employers upon request.

	Students are required to demonstrate knowledge and skills by passing performance tests based on required performance levels.	Yes	No
	Reference Materials in support of subclause 6.7:		
5.8	Safety Standards		
A.	Safety instruction is given prior to working in the lab/shop.	Yes	No
B.	Students are required to pass a safety test prior to working in the lab/shop.	Yes	No
C.	Safety training and tests are based on ANSI Z49.1, <i>Safety in Welding Cutting and Allied Processes</i> , as well as applicable federal and state regulations.	Yes	No
D.	Compliance with safety procedures is stressed in the lab/shop.	Yes	No
1	Reference Materials in support of subclause 6.8:		
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5.9	Personal Characteristics		<del>-</del> 
6.9 A.	Personal Characteristics  The importance of maintaining good relations with fellow students and employees is emphasized during training.	Yes	No
А. В.	The importance of maintaining good relations with fellow students and employees is emphasized during training.  Respect for fellow students' tools and other property is emphasized during training.	Yes	No
A.	The importance of maintaining good relations with fellow students and employees is emphasized during training.  Respect for fellow students' tools and other property is emphasized during		
A. B. C.	The importance of maintaining good relations with fellow students and employees is emphasized during training.  Respect for fellow students' tools and other property is emphasized during training.  The importance of developing good customer relations is stressed during	Yes	No
<ul><li>A.</li><li>B.</li><li>C.</li><li>D.</li></ul>	The importance of maintaining good relations with fellow students and employees is emphasized during training.  Respect for fellow students' tools and other property is emphasized during training.  The importance of developing good customer relations is stressed during training.  Students are given guidelines for appropriate clothing similar to that found in	Yes Yes	No No

# 6.10 Work Habits/Ethics A. The training program is designed to encourage appropriate work habits Yes No required on the job. B. Emphasis is placed upon ethical practices. No **Reference Materials in support of subclause 6.10: 6.11 Provisions for Individual Differences** A. The structure of the training program accommodates students with different Yes No levels of cognitive and psychomotor ability. **Reference Materials in support of sub-section 6.11: 6.12 Related Instruction** A. Instruction in related mathematics, science, communication arts, and Yes No interpersonal relations is integrated into the training program. B. Qualified instructors are used for related instruction in math, science, No Yes communication arts and interpersonal relations. **Reference Materials in support of subclause 6.12:** 6.13 Testing Written tests are used to evaluate cognitive task performance. Yes No B. Performance tests are used to evaluate manipulative task performance. Yes No

C.	Cognitive and manipulative tests are based on the appropriate levels of knowledge and performance as recommended in the corresponding SENSE standards and curriculum guidelines.	Yes	No
D.	Students are encouraged to take qualification tests that are specified in the corresponding level(s) of SENSE.	Yes	No
R	eference Materials in support of subclause 6.13:		_
	Evaluation of Instruction		
A.	A systematic program evaluation is used to make decisions about program efficiency, effectiveness and content.	Yes	No
B.	Instructor input is used in the evaluation process.	Yes	No
C.	Regular instructor evaluation is part of the evaluation process.	Yes	No
D.	Input from current and past students is used in the evaluation process.	Yes	No
E.	Advisory Committee input is used in the evaluation process.	Yes	No
R -	eference Materials in support of subclause 6.14:		
5.15	Articulation		
A.	The institution has one or more written articulation agreements to facilitate continued study, and to avoid unnecessary duplication of instruction.	Yes	No
R	eference Materials in support of subclause 6.15:		
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St	tandard 7—Equipment and Tools		
	quipment and tools must be of the type and quality found in industry and must surgram goals and performance objectives.	apport :	the
<b>7.</b> 1	Safety		
A.	Equipment and tools meet local, state and federal safety guidelines.	Yes	No
B.	All shields, guards, and other safety devices are in place, operational and used.	Yes	No
C.	All students, instructors, and visitors wear safety glasses in the lab/shop areas.	Yes	No
R	eference Materials in support of subclause 7.1:		_
7.2	<b>Quantity and Quality of Equipment and Tools</b>		
A.	The quantity of tools and equipment is adequate for efficient and effective instruction.	Yes	No
B.	The tools and equipment used in the program meet industry quality standards.	Yes	No
R	eference Materials in support of sub-section 7.2:		
			_ _
7.3	Consumable Supplies		
A.	Sufficient consumable supplies are available to ensure continuous instruction.	Yes	No
B.	Consumable supplies meet industry quality standards.	Yes	No
R	eference Materials in support of subclause 7.3:		
			_
_			_

.4	Maintenance		
A.	A preventive maintenance schedule is used to minimize equipment downtime.	Yes	No
R	eference Materials in support of subclause 7.4:		
7.5	Replacement		_
A.	An annual inspection and review process, including the use of student follow-up information and Advisory Committee input, is used to maintain up-to-date tools and equipment at industry and safety standards.	Yes	No
R	eference Materials in support of subclause 7.5:		_
7.6	Inventory		
A.	An inventory system is used to account for tools, equipment, supplies and consumables.	Yes	No
R	eference Materials in support of subclause 7.6:		_
7.7	Purchasing		
A.	A systematic purchasing system, with numbered purchase orders, is used to order materials for the welding technology program.	Yes	No
R	eference Materials in support of subclause 7.7:		
] —			_ _

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R	eference Materials in support of subclause 8.2:		_ <del></del>
E.	The facility has an emergency plan in place and posted in a prominent area.	Yes	No
D.	Lighting is adequate for the safe performance of tasks.	Yes	No
C.	An electrical disconnect systems is readily available, or there is a posted procedure for shutting down all outlets in case of an emergency.	Yes	No
В.	Fire extinguishers have current inspection tags attached, and meet fire codes for different types of fires.	Yes	No
A.	Hazardous areas are identified with proper signage.	Yes	No
3.2	Safety		
R	eference Materials in support of subclause 8.1:		<u>-</u>
В.	Adequate lab/shop space is available for the performance of tasks outlined in the program goals and performance objectives.	Yes	No
A.	Adequate booth space is available for the performance of tasks outlined in the program goals and performance objectives.	Yes	No
3.1	Welding Booths/Training Stations		
T	tandard 8—Facilities  the physical facilities shall be adequate to permit achievement of the program goaterformance objectives.	als and	
_			
			_, _
R	eference Materials in support of subclause 7.8:		
B.	During the period of instruction, students are encouraged to purchase a hand tool kit appropriate to the area(s) in which they are being trained.	Yes	No
A.	Hand tools for student use during lab/shop instruction are comparable to the tools required for employment.	Yes	No

# 8.3 Maintenance A. A written facilities maintenance program is used to ensure that facilities are No suitable for instruction. **Reference Materials in support of subclause 8.3:** 8.4 Housekeeping The classroom and lab/shop are kept clean and orderly. Yes No B. Storage areas are kept clean and orderly. No **Reference Materials in support of subclause 8.4:** 8.5 Office Space A. An area separate from the classroom and lab/shop is available to instructor(s) No for use as an office. **Reference Materials in support of sub-section 8.5:** 8.6 Instruction Area A. An area convenient to, but separate from, the lab/shop area is available for theory instruction and other non-lab/shop activities. **Reference Materials in support of subclause 8.6:**

<b>8.7</b>	Storage		
A.	The storage area for tools is adequate to support the activities outlined in the program goals and performance objectives.	Yes	No
B.	The storage area for consumables and supplies is adequate to support the activities outlined in the program goals and performance objectives.	Yes	No
C.	The storage area for materials is adequate to support the activities outlined in the program goals and performance objectives.	Yes	No
D.	Security for storage areas is sufficient to prevent pilferage and vandalism.	Yes	No
R -	eference Materials in support of subclause 8.7:		
8.8	Support Facilities		
A.	The area provided for clean-up after lab/shop activities is conveniently located.	Yes	No
B.	The restrooms for both male and female students are conveniently located.	Yes	No
R	eference Materials in support of subclause 8.8:		_
			_
8.9	Ventilation		
A.	An exhaust fume removal system is in place, meets industry requirements, removes fumes from the source, and is operable.	Yes	No
B.	The heating and cooling system provides sufficient comfort for learning.	Yes	No
R	eference Materials in support of subclause 8.9:		
			_
_			_

# 8.10 First Aid A. A written policy on administering first aid, including first aid procedures, is Yes No approved by institution administration and available. B. The eyewash station is conveniently located and clearly identified. Yes No C. The first aid kit is equipped with basic, up-to-date first aid supplies, and Yes No clearly identified. Reference Materials in support of subclause 8.10: **8.11 Facility Evaluation** A. The Advisory Committee conducts an annual evaluation of the facilities to No ensure they are adequate to meet program needs. **Reference Materials in support of subclause 8.11:** Standard 9—Instructional Staff The instructional staff shall have technical ability and meet state and local requirements for certification. 9.1 Technical Ability A. At least one (1) welding instructor holds a current AWS Certified Welding Yes No Educator (CWE) certification, or shows proof of working toward an AWS CWE. **Reference Materials in support of subclause 9.1:**

# 9.2 Instructional Ability A. All program instructors meet applicable state certifying requirements. Yes No **Reference Materials in support of subclause 9.2:** 9.3 Technical Updating A. Welding technology trade publications, industry update information, and Yes No other materials needed to maintain technical knowledge and skills are available for instructional staff. B. Instructors attain a minimum of twenty (20) hours per year of related No technical and/or professional development training. **Reference Materials in support of subclause 9.3:** 9.4 Substitute Teaching A. A systematic method for obtaining "substitute" or "supply" instructors is Yes No used. B. An orientation session for substitutes is held on a regular basis. Yes No C. Substitutes competent in welding technology are used to fill in for regular No Yes instructional staff. **Reference Materials in support of subclause 9.4:**

# **Standard 10—Cooperative/Internship Agreements** Written policies and procedures shall be used for cooperative/internship and apprenticeship training programs, where applicable. (This applies only to programs that offer cooperative/internship and/or apprenticeship training.) **10.1** Performance Requirements A. A student training plan and performance requirements have been agreed to by the welding technology instructor, educational institution administrator, and the co-op/intern sponsor. **Reference Materials in support of subclause 10.1:** 10.2 Agreements A. All agreements between the institution and the work location are in writing. No **Reference Materials in support of subclause 10.2:** 10.3 Supervision A. The welding technology instructor (or supervising coordinator) is given No adequate time and resources to coordinate and monitor the welding technology program. **Reference Materials in support of subclause 10.3:**