

Optional Information

Name of School:

Date of Inspection:

Vocational Program/Course/Room:

Signature of Inspector:

**Welding With Resistance Welding Equipment
Self Inspection Checklist**

Guidelines: This checklist covers some of the regulations issued by the U.S. Department of Labor - OSHA under the General Industry standards 29 CFR 1910.255 and 29 CFR which were adopted by reference. It applies to the use of resistance welding equipment. This checklist must be used in conjunction with the checklist "Welding, Cutting and Brazing - General Requirements."

General	<u>Please Circle</u>
1. Is all resistance welding equipment installed by a qualified electrician? [29 CFR 1910.255(a)(1)]	Y N N/A DK
2. Is a disconnecting switch, circuit breaker or circuit interrupter conveniently located at or near each resistance welding machine which is capable of isolating it from the supply circuit? [29 CFR 1910.255(a)(1) and 29 CFR 1910.306(d)(2)]	Y N N/A DK
3. Are ignitron tubes used in resistance welding equipment equipped with a thermal protection switch? [29 CFR 1910.255(a)(2)]	Y N N/A DK
4. Are students/employees trained and judged competent to operate resistance welding equipment? [29 CFR 1910.255(a)(3)]	Y N N/A DK

Comments/Corrective Action:

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5. Are controls of automatic or air and hydraulic clamps arranged or guarded to prevent accidental operator activation? [29 CFR 1910.255(a)(4)] Y N N/A DK

Spot and Seam Welding Machines
(nonportable)

6. Are external weld initiation control circuits of nonportable spot and seam welding machines limited to a maximum of 120 volts? [29 CFR 1910.255(b)(1)] Y N N/A DK
7. Are welding machine cabinet doors electrically interlocked to interrupt power, short circuit capacitors or otherwise prevent access to live electrical equipment? [29 CFR 1910.255(b)(2) & (3)] Y N N/A DK
8. Are press welding machines effectively guarded to prevent operator hand injury? [29 CFR 1910.255(b)(4)] Y N N/A DK
9. Are point of operation shield guards and fire-resistant curtains installed to prevent students/employees or passerby from flying sparks? [29 CFR 1910.255(b)(5)] Y N N/A DK
10. Are foot switches guarded to prevent accidental machine operation? [29 CFR 1910.255(b)(6)] Y N N/A DK
11. Are two or more safety emergency stop buttons provided on all special multi-spot welding machines including two-post and four-post weld presses? [29 CFR 1910.255(b)(7)] Y N N/A DK
12. Where technically practical, are secondary welding transformers used in multispot, projection and seam welding machines grounded? [29 CFR 1910.255(b)(9)] Y N N/A DK

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Portable Welding Machines

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|-----|--|---|---|-----|----|
| 13. | Are portable welding guns suitably counterbalanced for supporting the guns, including cables, unless the design of the gun or fixture makes counterbalancing impractical or unnecessary? [29 CFR 1910.255(c)(1)] | Y | N | N/A | DK |
| 14. | Are portable welding machines suspended from overhead structures equipped with safety chains or cables? [29 CFR 1910.255(c)(2)] | Y | N | N/A | DK |
| 15. | Are initiating switches guarded to prevent accidental operator activation? [29 CFR 1910.255(c)(4)] | Y | N | N/A | DK |
| 16. | Does the movable holder, where it enters the gun frame, have sufficient clearance to prevent the shearing of fingers carelessly placed on the operating movable holder? [29 CFR 1910.255(c)(5)] | Y | N | N/A | DK |
| 17. | Is the secondary and case of all portable welding transformers grounded? [29 CFR 1910.255(c)(6)] | Y | N | N/A | DK |

Flash Welding Equipment

- | | | | | | |
|-----|--|---|---|-----|----|
| 18. | Are flash welding machines equipped with a hood to control flying flash? [29 CFR 1910.255(d)(1)] | Y | N | N/A | DK |
| 19. | Are fire resistant curtains or suitable shields set up around the machine and in such a manner that the operator's movements are not hampered? [29 CFR 1910.255(d)(2)] | Y | N | N/A | DK |

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20. Are periodic inspections of welding equipment performed by qualified maintenance personnel? [29 CFR 1910.255(e)] Y N N/A DK

21. Is a certification record of periodically inspected welding equipment maintained which includes date of inspection, signature of inspector and equipment serial number or other identifier? [29 CFR 1910.255(e)] Y N N/A DK

Maintenance

22. Are welding machine operators required to report any equipment defect to his/her supervisor and is the use of the equipment discontinued until safety repairs have been completed? [29 CFR 1910.255(e)] Y N N/A DK

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