



Specification for the Qualification of Robotic Arc Welding Personnel



American Welding Society®



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An American National Standard**

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Specification for the Qualification of Robotic Arc Welding Personnel

3rd Edition

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Prepared by the
American Welding Society (AWS) D16 Committee on Robotic and Automatic Welding

Under the Direction of the
AWS Technical Activities Committee

Approved by the
AWS Board of Directors

Abstract

This specification provides requirements for the qualification of robotic arc welding personnel at three different classifications—Operator (O), Technician (T), and Engineer (E).



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Foreword

This foreword is not part of AWS D16.4M/D16.4:2015, *Specification for the Qualification of Robotic Arc Welding Personnel*, but is included for informational purposes only.

The AWS D16 Committee on Robotic and Automatic Welding was organized in 1985 to provide centralized source for the exchange of technical information between manufacturers, installers, and operators of robotic and automated equipment.

The first edition of AWS D16.4 (AWS D16.4:1999, *Specification for the Qualification for Robotic Arc Welding Personnel*) provided guidelines for the qualification of arc welding personnel. The second edition (AWS D16.4M/D16.4:2005) included revisions based on the experience of the certification program for robotic arc welding personnel. This edition reduced the levels of qualification from four to three and aligned education and experience requirements more realistically with those in industry.

This third edition changes the levels of qualification to Level 1—Certified Robotic and Automated Welding Operator (CRAW-O), Level 2—Certified Robotic and Automated Welding Technician (CRAW-T), and Level 3—Certified Robotic and Automated Welding Engineer (CRAW-E) from the second edition's qualification designations of Level 1—CRAW-L1, Level 2—CRAW-O, and Level 3—CRAW-T. Those certified under the second edition certification level designations shall be grandfathered into the corresponding third edition level designation.

This third edition also includes changes to the figures from the second edition. Figures 1 and 2 have been revised and Figure 3 removed. Additional changes that have been made from the 2005 edition are represented by a vertical line in the margin.

The requirements for certification of Robotic Arc Welders are located in the QC19 document.

Comments and suggestions for the improvement of this standard are welcome. They should be sent to the Secretary, AWS D16 Committee on Robotic and Automatic Welding, American Welding Society, 8669 NW 36 St, # 130, Miami, FL 33166.

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