

RIA TR R15.706-2019

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technical report

*for Industrial Robots and Robot Systems —
Safety Requirements*

User Responsibilities

Registered with ANSI
September 22, 2019



Robotic Industries Association

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Technical Report
for Industrial Robots and Robot Systems — Safety Requirements —
User Responsibilities

Secretariat
Robotic Industries Association

Registered September 22, 2019
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Foreword

The Robotic Industries Association (RIA) has prepared this Technical Report with the objective to provide users of robotic systems with guidance for applying RIA R15.06.

This technical report is supplemental to ANSI/RIA R15.06-2012 and is not itself a standard. The referenced industry standards and technical reports are voluntary. RIA makes no determination with respect to whether any robot, robot system or robot cell, associated safety devices, manufacturer, or user is in compliance with published standards and technical reports. Users of this document should consult applicable federal, state, and local laws and regulations.

Publication of this Technical Report that has been registered with the American National Standards Institute (ANSI) has been approved by the Accredited Standards Developer, Robotic Industries Association. This document is registered as a Technical Report according to the Procedures for the Registration of Technical Reports with ANSI. Comments on the content of this document should be sent to:

Robotic Industries Association
Attn: Subcommittee on Safety
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Members of the R15 Standards Approval Committee, the R15.06 Drafting Subcommittee, and the Committee Secretary participated in the development of this technical report.

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0 Introduction

ANSI/RIA R15.06-2012 provides information for the safe design, manufacturing, installation, operation, maintenance and decommissioning of industrial robots and robot systems. It is directed to a variety of “stakeholders” including the manufacturer, integrator and supplier of robots and robot systems. These suppliers are required to produce machines (robots and robot systems) with the intent of providing the capabilities, functionality, and information needed for the user to safely use the robot systems. The standard addresses the entire supply chain of the robot systems but does not include requirements or guidance to the user who is responsible for the safety of the robot system in use.

This technical report is directed to the user stakeholder. It provides guidance and expands on the responsibilities that are implied, but not stated specifically, in the standard.

Because this ANSI-registered U.S. Technical Report cannot contain normative requirements, the use of “should” and “shall” in this document indicate the relative importance of specific criteria or features in this Technical Report.

1 Scope

This technical report is written for users of industrial robots or robot systems that comply with ANSI/RIA R15.06-2012 Part 1, a responsibility of the robot manufacturer; and of industrial robot systems that comply with ANSI/RIA R15.06-2012 Part 2, a responsibility of the integrator.

This technical report explains some user responsibilities and provides guidance to the user of robot systems to enable the safe use of the robot system(s) in their facilities. Compliance with this technical report is only achievable when using robot and robot systems that are compliant with ANSI/RIA R15.06-2012.

2 References

This technical report provides user guidance intended to be applied in conjunction with the following standards, as described in this technical report:

ANSI/RIA; R15.06-2012 *Industrial Robots and Robot Systems — Safety Requirements*

ANSI/ISO 12100:2012 (ISO 12100:2010 IDT); *Safety of machinery — General principles for design — Risk assessment and risk reduction*

ANSI Z244.1; *The Control of Hazardous Energy Lockout, Tagout and Alternative Methods*

RIA TR R15.306; *Technical Report for Industrial Robots and Robot Systems – Safety Requirements – Task-based Risk Assessment Methodology*

RIA TR R15.406; *Technical Report for Industrial Robots and Robot Systems – Safety Requirements – Safeguarding*

RIA TR R15.506; *Technical Report for Industrial Robots and Robot Systems – Safety Requirements – Existing Systems*