

dss⁺ Introduction to Robotics Part 1 & 2

eLearning (50 min)

Industrial robotics is a fast-growing field impacting a wide variety of industries across the globe. This two-part course introduces learners to the basic components, functions and programming principles used in working safely with industrial robots.

AUDIENCE Intended for both entry-level and experienced workers seeking to understand the foundational principles and mechanics of working with industrial robots

INDUSTRIES Agriculture, Food and Beverage, Chemical and Petrochemical, Electronics, Oil and Gas, Metals and Mining, Transportation, Manufacturing

TOPICS COVERED

- **Part 1** focuses on the four components of a basic robotic system, including major and minor axes of a robot mechanical unit and related movements, common robot controller components and their functions, peripheral devices and common items found on the end-of-arm-tooling.
- **Part 2** expands on the information provided in Part 1 by examining coordinate systems used to “jog” or control the robot's movements, with a focus on explaining key characteristics of the Cartesian coordinate system, teach pendant operation, and how reference frames are used to set up a robotic cell. Safety issues related to working with industrial robots are also presented in this module.



KEY MODELS & TOOLS Modules include high-definition visual models, videos, and interactive exercises that demonstrate the placement and functionality of key components, visually illustrating conceptual systems integral to robotic operations to maximize learner engagement.

COURSE CODES ROB001HMLENG0000 (30 min) & ROB002HMLENG000 (20 min)

KEY OUTCOMES

This engaging, introductory eLearning course fills a much-needed technology training gap in the area of industrial robotics. Learners will gain an understanding of foundational principles of robotics they can apply to working with all robots, regardless of model or manufacturer.

Visit <https://www.consultdss.com/build-capabilities-through-training>

or call +1 877-262-7825 today.



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