FANUC
EDUCATION RESELLER
CNC | ROBOT | ROBOMACHINE

Advanced 2D *
iRVision

COURSE OVERVIEW

This course covers advanced tasks and procedures required for an operator, technician, engineer or programmer to setup, teach, test and modify iRVision applications on an R-30iB Robot Controller.

The course will include:

• Advanced Vision Concepts
• Advance Vision Tools
• Advanced Vision Processes
• Advanced Vision Setup including camera setup
  and multiple types of camera calibration
• TPP programming for Advanced Vision
• Troubleshooting

In addition to presentations and demonstrations, this course offers a series of lab exercises for the student to complete.

Lab exercises relate directly to the classroom presentations and are intended to reinforce what the student has learned through actual hands-on experience.

*Este curso tiene pre requisitos, por favor consultar.

1.1 Course Goal

Upon successful completion of this course, the student can setup and run an Advanced iRVision process.
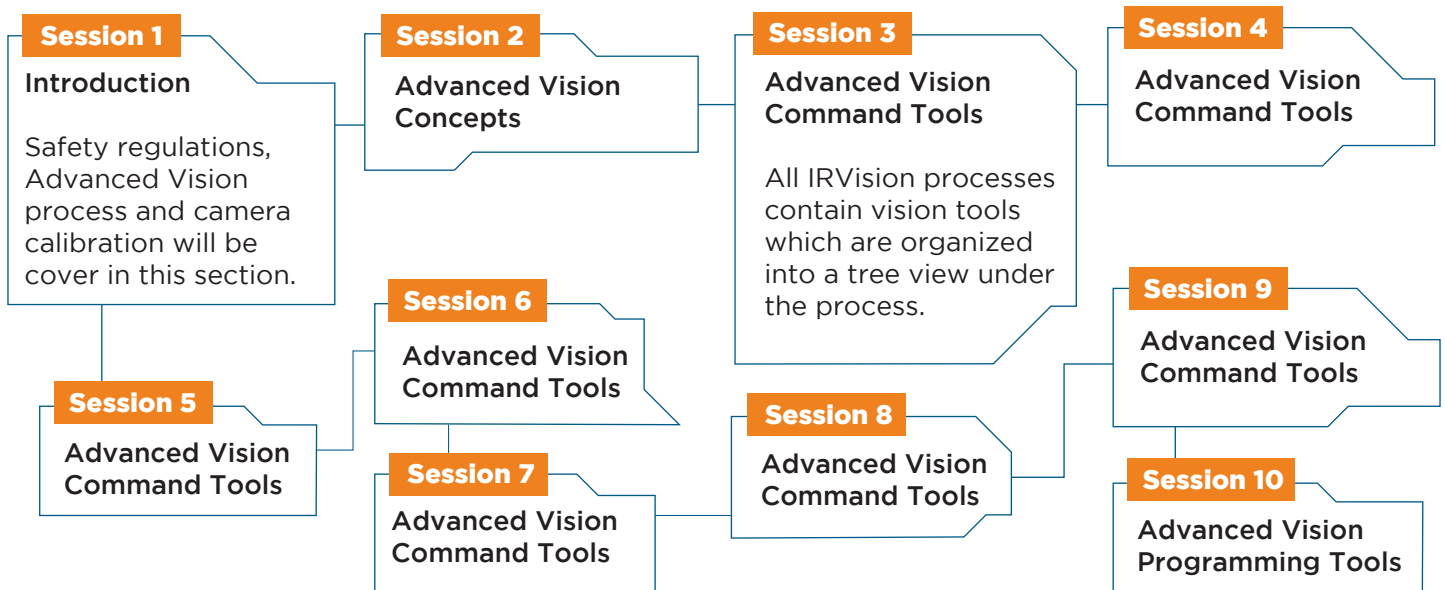
1.2 Prerequisites

2D İRVision Operation & Programming as well as Handling Tool, SpotTool, ArcTool, or DispenseTool Operation and Programming, although an understanding of Advanced
TPP Programming would be preferred.

1.3 Objectives

Students successfully completing this course will be able to:

- **Establish robot to computer communication**
  - Identify all components involving robot to computer communication
  - View and/or change parameters in the robot and computer to facilitate communication
  - Test communication
  - Access the robot web page in order to setup vision.
- **Perform Error Recovery**
  - Remove impediments to servo power-up
- **Frame Creation**
  - Create tool frame for robot applicator
  - Create tool frame for teaching user frames
  - Create user frames necessary for use with vision system
- **Setup Advanced 2D Single View Processes**
  - Setup the camera
  - Calibrate the camera
  - Setup the vision process including command, locator and process tools
  - Program the robot to respond to vision results

1.4 Course content

Session 1

Introduction

Safety regulations, Advanced Vision process and camera calibration will be cover in this section.

Session 2

Advanced Vision Concepts

Session 3

Advanced Vision Command Tools

All IRVision processes contain vision tools which are organized into a tree view under the process.

Session 4

Advanced Vision Command Tools

Session 5

Advanced Vision Command Tools

Session 6

Advanced Vision Command Tools

Session 7

Advanced Vision Command Tools

Session 8

Advanced Vision Command Tools

Session 9

Advanced Vision Command Tools

Session 10

Advanced Vision Programming Tools

LOS CURSOS SERÁN IMPARTIDOS EN ESPAÑOL

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