

**Day 1**

## AM – Intro to Kinova and Kinova products

What	Material	Time
Intro: general	General intro. Get to know everyone and hear expectations for the training	15 mins
Intro to Kinova as a company	Kinova's value and mission. Overview on Kinova's business divisions Overview on where the company is going	30 mins
Intro to Kinova products	Kinova robotic arms Their functionalities Their control options Their main technical specifications Their strengths and limits. Overview of some control tools Demo: comparison between the different robot's motion in Cartesian space (6 DOF, 6 DOF-S, 7 DOF) Kinova website guided tour	1h
Overview of the Development Center	Install Development center and torque console	45 mins

## PM – Getting to know the Kinova tools and API

What	Material	Time
Overview of the Development Center	Insist on programming trajectories Insist on configuring the robot (simple configs) Insist on monitoring as a diagnosis tool Insist on reprogramming the robot if there is any firmware corruption interact with the robot using the joystick, interact with the robot using the Development Center.	30 mins
Overview of the API	Overview of the API documentation	30 mins
Running and understanding a code examples	Code example on Ubuntu or Windows interact with the robot using the API	2h

## Day 2

### AM – Hardware training and Actuators

What	Material	Time
Hardware minor repairs	How to put back a finger in its socket How to unscrew the hand How to perform minor hardware diagnostics Other frequent hardware repairs	1h
Controller + Actuators	How to connect actuators in a chain How to control actuators	1.5h

### PM – ROS Training and Frequent questions

What	Material	Time
Overview of kinova ROS package	Why is ROS so important The kinova-ros repo Main functionalities available in the kinova ROS packages Hands-on: starting with ROS on Ubuntu Demo of ROS package	2h
Frequent questions	Overview and explanation on the frequently asked questions to help you provide front-line support	1h

**Day 3**

AM – API Refresh + Matlab + Frequent questions (continued)

What	Material	Time
API	Running API example (refresh memory)	1 hour
Matlab	Overview of matlab wrapper	30 mins
Review and answering your questions	Review specific questions you may have on the material Finish covering the FAQ as needed	1 hour

PM – Wrap-up and evaluation

What	Material	Time
Review and answering your questions	Selected questions on what you learned during the training Group discussion on your answers afterwards	30 mins
Evaluation	Selected questions on what you learned during the training Group discussion on your answers afterwards	1h
Feedback	Your feedback on the training session	20 mins
Open discussion	Open discussion on your remaining questions and projects you would like to achieve using Kinova robots	30 mins
Closure	Group picture Thanks and we keep in touch!	10 mins