

Industry 4.0 & Supply Chain Transformation Workshop Lesson Plan
 Course Facilitator: Paul Lim
 Training Venue: Innovation Playground @ Supply Chain Asia (IP@SCA)
 Time: 0900-1630

Time	Contents	Remarks
Day 1		
0900-0915	Welcome & Registration	Attendance Taking via SingPass
0915-0930	Introduction to Workshop	Presentation
0930-1000	Participants' Self Introduction	ALL
1000-1030	An Overview on the Digitalisation of Supply Chain	Presentation & Class Discussion
1030-1100	Break	ALL
1100-1130	Demystifying Selected Technologies Introduction to Immersive Technologies	Presentation/Discussion Hands-on and Walkthroughs
1130-1245	Lunch	ALL
1245-1300	Attendance sign in (SSG System)	QR via SingPass
1330-1400	Introduction to Internet of Things	Presentation
1400-1500	Build Your Own Internet of Things – ESP32	Hands-On Exercises (Bring your own laptop)
1500-1530	Break	ALL
1530-1600	IoT Demos – Smart Voice, Smart Shelf, Smart Vest, Asset Tracking and Indoor Tracking; Demonstration of RTLS	Hands-on Demonstration Discussion
1600-1630	Review & Recap/End of Day 1	ALL

Day 2		
0900-0915	Registration/Zoom Sign-in & Attendance Taking	QR via SingPass
0915-0930	Demystifying Artificial Intelligence	Presentation
0930-1000	Machine Learning & AI Machine Learning Playground by Google	Presentation & Discussion Hands-on Exercise
1000-1030	Deep Learning & AI Teachable Machine by Google	Presentation & Discussion Hands-On Exercise
1030-1100	Break	ALL
1100-1130	Machine Learning by Jupyter Notebook Deep Learning on Colaboratory by Google	Hands-on Demonstration
1130-1245	Lunch	ALL
1245-1300	Attendance sign in (SSG System)	QR via SingPass
1300-1330	Introduction to RPA	Presentation & Discussion
1330-1400	RPA System Setup	UiPath RPA (Bring your own Windows Laptop)
1400-1530	RPA Exercises - Weather Clothing Recommendation App - Data Capturing - Web Scraping Exercise	Hands-On Exercise
1530-1600	Break	ALL
1600-1630	Review & Recap/End of Day 2	ALL

Day 3		
0900-0915	Registration/Zoom Sign-in & Attendance Taking	QR via SingPass
0915-1000	Introduction to Automation, Autonomous Technologies & Robotics <ul style="list-style-type: none"> - AMR vs AGVs - Introduction to LiDAR, SLAM & VSLAM - The Makings of Smart Autonomous Robotics 	Presentation/Discussion
1000-1030	Introduction to Sparki the Robot	Setting up of Sparkiduino
1030-1100	Break	ALL
1100-1130	Sparki the Robot Hands-on Exercises <ul style="list-style-type: none"> - Follow the Line - Edge Avoidance - Wall Avoidance 	Hands-on Exercises (Bring your own laptop)
1130-1245	Lunch	ALL
1245-1300	Attendance sign in (SSG System)	QR via SingPass
1300-1315	Trainer & Course Survey @ LMS	ALL
1315-1400	Innovation Maturity Matrix Supply Chain Innovation Toolkit	Presentation & Discussion
1400-1500	Putting it together – Sharing by Participants	ALL
1500-1530	Final Words/End of Workshop	ALL