

Official Transcript of Records

ESA Academy Training Course:

Robotics Workshop July 2025

Student personal data:

Complete name: Dan Koskiranta

Course data:

Location: **High Bay, Erasmus building, ESTEC, Noordwijk, The Netherlands**

Date: **22 to 25 July 2025**

Total duration: **33 h 45 min**

Lecture	Duration
Welcome and Introduction	1 h
ESA Planetary Exploration	1 h 30 min
Coding with ExoMy	1 h
Rover Basic set-up Exercise	2 h
Motor Calibration Exercise	1 h
ROS Basic Theory	1 h
ROS Topics Exercise	45 min
Robotic Mission for Mars	1 h 15 min
Introduction Simulation	45 min
ROS Services Exercise	1 h
Theory of Locomotion System	1 h
Locomotion Modes Exercise	3 h 30 min
ESTEC Visits	2 h 30 min
AI for Robotic Applications	1 h 30 min
Create Dataset Exercise	1 h
Train Network Exercise	2 h 30 min
Deploy AI on ExoMy	1 h
Mars Mission Operations	1 h
Preparation for Final Exercise	5 h 30 min
Group Demo	2 h 15 min
Wrap-up and Conclusion	45 min

Evaluation result:

Grading system:

Grade: B

Grade	Definition	Grade	Definition
A	Outstanding performance with only minor errors	D	Fair but with significant shortcomings
B	Above the average standard but with some errors	E	Performance meets the minimum criteria
C	Generally sound work with a number of notable errors	F	Fail – performance did not meet the minimum criteria

Noordwijk, 31 July 2025



Hugo Marée
Head of Education Office
European Space Agency