

→ ONLINE LADYBIRD GUIDE TO SPACECRAFT OPERATIONS TRAINING COURSE 2020

CERTIFICATE

presented to

Georges Labrèche

for your participation in the ESA Academy's Online Ladybird Guide to Spacecraft Operations Training Course 2020

7–18 September 2020

Hugo Marée
Head of Education Office, ESA



Official Transcript of Records

ESA Academy Training Session:

Online Ladybird Guide to Spacecraft Operations Training Course 2020

Student personal data:

Complete name: Georges Labrèche
Nationality: Canada

Course data:

Date: 7 - 18 September 2020
Total duration: 28 h

Lecture	Duration
Welcome and Introduction	30 min
Mission: Introduction, Mission Design and Payloads	3 h 45 min
Attitude Determination and Control Subsystems (ADCS)	6 h 15 min
Orbital Control Subsystems (OCS)	1 h 30 min
Power	4 h
Thermal	45 min
Telemetry, Telecommunications and Command (TT&C)	1 h
On Board Data Handling (OBDH)	3 h 45 min
On Board Software (OBSW)	2 h
Overview of ESEC	1 h
Galileo, the European GNSS	1 h
ESA and ESA Education Programme	1 h
Summary & Conclusion	1 h
Evaluation	30 min

Evaluation result:

Grading system:

Grade: A

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

Transinne, 22 September 2020



Hugo Marée
Head of Education Office
European Space Agency