



**Tools and methods for operators training and certification**  
**CCT OPS: 18<sup>th</sup> Feb 2016 / CLS premises**

**Workshop agenda**

08h30-09h00		Welcome and coffee		
09h00-09h15	15m	Introduction and objectives	G. Galet	CNES
<b>Theme #1 : Testimonies and lessons learnt from space industry</b>				
09h15-09h30	15m	Standard operational practices & Knowledge management problematic	G. Galet	CNES
09h30-10h10	40m	Lessons learnt by CNES operators (Spot, Pléiades, Galileo, microsats, ...)	collegial	CNES
10h10-10h35	25m	Training and Simulations at ESOC - Process and Infrastructure	M. Gabel V. Reggestad	ESOC
10h35-10h50	15m	Coffee break		
10h50-11h15	25m	Overview of DLR-GFR training & certification process for Galileo Ops	J. Maria Sola Morena	DLR
11h15-11h40	25m	Ground controllers training	L. Labboz	Telespazio
<b>Theme #2 : Round tables</b>				
11h40-12h30	50m	A) <b>Set-up of simulation scenarios</b> : technical and organizational aspects, type and number of simulations, nominal/contingency, etc. B) <b>'Live' management of a simulation</b> : simulation credibility, plausibility, representativeness, operator conditioning, etc. C) <b>Skills management</b> : refresher trainings, automation impacts, certification, associated indicators, etc.	Round table to be chosen each	attendance by participant
12h30-13h30	60m	Lunch break		
<b>Theme #2 : Round tables (continued)</b>				
13h30-14h00	30m	Round tables synthesis	Round table	secretaries
<b>Theme #1 (continued)</b>				
14h00-14h30	30m	Customer training by Airbus DS	B. Calvet	Airbus DS
14h30-15h00	30m	Internship training by TAS	S. Hilaire	TAS
<b>'Theme #3 : Testimonies and lessons learnt from non-space entities</b>				
15h00-15h20	20m	Training and certification for air traffic management controllers	A. Serres	ENAC
15h20-15h40	20m	Training and simulation for nuclear powerplant operators	F. Leray	EDF
15h40-16h00	20m	Human Factors : A tool in the improvement of the performance	C. Lemerrier	Univ. Tlse.
16h00-16h15	15m	Coffee break		
<b>Theme #4 : Upcoming potential changes of practice, preparation of future</b>				
16h15-16h30	15m	A Systematic Approach to Training Encompassing Operators' Mission and Interaction Techniques	Ph. Palanque	IRIT
16h30-16h45	15m	Simulators trends	F. Manon	CNES
16h45-17h00	15m	Presentation of MATES (Multi-Agent Training Environment Simulator)	G. Tanier	CGI
17h00-17h15	15m	SatTrainer, e-Learning for Telespazio Space Operators	L. Dubois	Telespazio
17h15-17h30	15m	Conclusion of the workshop	All	
17h30		End of workshop		