

**4H Introduction to Reinforcement Learning and Deep Q Neural Networks****Trainer :** Dan Chalk**Total Time :** 180

<i>Time</i>	<i>Format</i>	<i>Name of Activity</i>
15	Live Lecture	Introduction to Dan Chalk's Treasure Hunt
30	Group Game	Let's Play Dan Chalk's Treasure Hunt
5	Cohort Discussion	Post-game discussion
15	Live Lecture	Introduction to Reinforcement Learning and the Exploration-Exploitation Dilemma
10	Comfort Break	
10	Live Lecture	Introduction to Dan Chalk's Treasure Hunt Round 2
5	Group Discussion	PSGs decide on exploitation rate in their breakout rooms
10	Group Game	Let's Play Dan Chalk's Treasure Hunt Round 2
5	Cohort Discussion	Post-game discussion
10	Live Lecture	Learning Rates and a Linear Operator Learning Rule
5	Group Discussion	PSGs decide on exploitation and learning rates in their breakout rooms
10	Group Game	Let's Play Dan Chalk's Treasure Hunt Round 3
5	Cohort Discussion	Post-game discussion
5	Comfort Break	
30	Group Exercise	Exercise 1 : RL Application Ideas
10	Cohort Discussion	PSGs pitch their RL application ideas