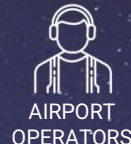


## TM #01: “Houston, we have a problem!” Problem Solving and Decision-Making



The transversal module “**Houston, we have a problem!**”: **Problem Solving and Decision-Making** has been designed to develop trainees’ problem solving and decision-making skills.



### Key Learning Objectives

- ✦ Understand the interrelations between problem solving and decision making
- ✦ Understand different strategies of problem solving and decision-making
- ✦ Apply problem solving and decision-making tools in daily life

### Key Learning Topics

- ✦ **Problem solving and decision-making, aren’t they the same?** Understand the concepts of problem solving and decision-making
- ✦ **What’s my problem? Time to solve it!** Recognise and solve a problem
- ✦ **I made a decision! Oh, wait...maybe not?** Understand the process of decision-making
- ✦ **I have 99 problems, and 100 ways to make a decision!** Distinguish ways to solve a problem and tools to make a decision



### Training Module Format:

- ✦ Synchronous to stimulate communication among participants
- ✦ Asynchronous to allow the completion of the course in one’s pace
- ✦ Assessment activities throughout the course

### Training provider: QSR

For more information about the training, please contact Marta Pinto ([mpinto@qsr.consulting](mailto:mpinto@qsr.consulting)).

COORDINATOR



CONTACT

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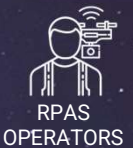
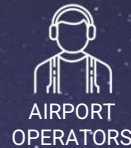
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## TM #02: Artificial Intelligence and Machine Learning for Aviation Applications



The transversal module **Artificial Intelligence and Machine Learning for Aviation Applications** has been designed to provide a general understanding on the topics of Artificial Intelligence and Machine Learning and their application to the aviation industry.



### Key Learning Objectives

- ✦ Understand basic Artificial Intelligence and Machine Learning concepts
- ✦ Understand and give examples of applications of AI/ML in different areas of the aviation industry
- ✦ Analyse and identify future AI trends and applications in the aviation sector

### Key Learning Topics

- ✦ Basic Artificial Intelligence and Machine Learning concepts and terminology
- ✦ History of Artificial Intelligence and Machine Learning
- ✦ Types of Machine Learning
- ✦ Basic Artificial Intelligence and Machine Learning techniques & algorithms
- ✦ Current, emerging and future applications of Artificial Intelligence in aviation
- ✦ Trustworthy Artificial Intelligence



### Training Module Format:

- ✦ Asynchronous to allow the completion of the course in one own pace
- ✦ Assessment activities throughout the course

### Training provider: University of Malta

For more information about the training, please contact Jason Gauci ([jason.gauci@um.edu.mt](mailto:jason.gauci@um.edu.mt))

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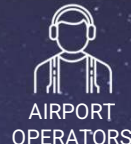
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## TM #03: Deepening of Situation Awareness



The transversal module **Deepening of Situation Awareness** has been designed to enable trainees to have a deep understanding of the concept of situational awareness and its applicability to the aviation industry.



### Key Learning Objectives

- ✈ Understand the concept of situational awareness
- ✈ Apply the concept of situational awareness to real-world situations
- ✈ Evaluate his/her self-assessment of situation awareness

### Key Learning Topics

- ✈ Fundamentals of situation awareness: theory and measurement
- ✈ Human perception
- ✈ Mental models
- ✈ Visual scanning training
- ✈ Meta-cognition and self-assessment
- ✈ Practice of situation awareness self-assessment
- ✈ Self-assessment of situation awareness

#### Training Module Format:



- ✈ Synchronous to stimulate communication among participants
- ✈ Asynchronous to allow the completion of the course in one's pace
- ✈ Assessment activities throughout the course

#### Training provider: ENAC

For more information about the training, please contact Nadine Matton ([nadine.matton@enac.fr](mailto:nadine.matton@enac.fr)).

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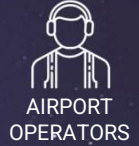
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## SM #01: Change Management for Automation and Emerging Technologies



The specific module **Change Management for Automation and Emerging Techs** has been designed to teach trainees about the importance that change and adaptation have in today's and future operations within the aviation industry.



### Key Learning Objectives

- ✦ Understand the concept of change management
- ✦ Apply the concept of change management to real-world situations
- ✦ Evaluate constant changes in airport operations
- ✦ Create solutions to deal with the changes in airport operations

### Key Learning Topics

- ✦ Concept of change management
- ✦ Automation and new technologies
- ✦ Human factors in change management
- ✦ Resistance and resilience to change
- ✦ Constantly changing and unchanging in airport operations
- ✦ Performance for change management
- ✦ Adaptive/innovative solutions for changing airport environment

### Training Module Format:



- ✦ Synchronous to stimulate communication among participants
- ✦ Asynchronous to allow the completion of the course in one's pace
- ✦ Practical case studies and discussion throughout the course

### Training provider: ESTU

For more information about the training, please contact Birsen Açikel ([birsena@eskisehir.edu.tr](mailto:birsena@eskisehir.edu.tr)) or Suat Uslu ([suslu@eskisehir.edu.tr](mailto:suslu@eskisehir.edu.tr)).

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## SM #02: How to Cope with Stress and Change to Fit in Future Roles

### Change Adaptability and Stress Management



The specific module **How to Cope with Stress and Change to Fit in Future Roles: Change Adaptability and Stress Management** has been designed to enable trainees how they deal with change and stress when the environment requires them to fit in new roles.



#### Key Learning Objectives

- ✦ Understand the mechanisms of stress and reactions to change
- ✦ Analyse their natural tendencies in coping with stress and change
- ✦ Understand the different coping strategies in dealing with new and difficult situations

#### Key Learning Topics

- ✦ Learn how the stress mechanism works
- ✦ Understand and apply the criteria of optimism and Locus of control to the stress management
- ✦ Resources to maximize our stress management
- ✦ Understand the differentiation among short and long coping strategies
- ✦ Understand the journey when facing critical changes at work
- ✦ Personality traits that have an impact on change management

#### Training Module Format:



- ✦ Synchronous to stimulate communication among participants
- ✦ Asynchronous to allow the completion of the course in one's pace
- ✦ Practical case studies and game-based activities throughout the course

#### Training provider: Deep Blue

For more information about the training, please contact Alessia Golfetti ([alessia.golfetti@dblue.it](mailto:alessia.golfetti@dblue.it)) or Angela Donati ([angela.donati@dblue.it](mailto:angela.donati@dblue.it)).

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## SM #03: Learning and Practice of New Aircraft Procedures



The specific module **Learning and Practice of New Aircraft Procedures** has been designed to enable pilot trainees to learn new aircraft procedures and train themselves autonomously. It will provide an adaptive tool that facilitates the practice of the execution of the sequence of actions to be performed in the procedures. The objective is to train all the normal and emergency procedures that have to be known without the help of the procedures manual.




### Key Learning Objectives

- ✦ Remember the sequences of actions of X aircraft procedures
- ✦ Understand the principles that guide each procedure

### Key Learning Topics

- ✦ Knowledge about aircraft controls
- ✦ Principles of actions ordering
- ✦ Procedure sequence
- ✦ Procedure practice

#### Training Module Format:

- 
- ✦ Synchronous to guide learners in the use of the virtual reality device
  - ✦ Asynchronous to allow the earning of the procedures in one's own pace with the virtual reality device that provides feedback on correctness of executed procedure
  - ✦ Simulation activities at the end of the course

#### Training provider: ENAC

For more information about the training, please contact Nadine Matton ([nadine.matton@enac.fr](mailto:nadine.matton@enac.fr)).

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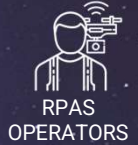
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## SM #04: “Managing Myself: Towards a Safe Life” Workload Management & Stress Management



The specific module “**Managing Myself: Towards a Safe Life**”: **Workload Management & Stress Management** has been designed to develop trainees' workload management and stress management skills.



### Key Learning Objectives

- ✦ Understand workload and stress management concepts and their role to a safer work-life balance
- ✦ Understand the different strategies of workload and stress management
- ✦ Apply workload and stress management tools in daily life

### Key Learning Topics

- ✦ **Workload and Stress Management: Why do I need them to be safe?** Understand the concepts of workload management and stress management
- ✦ **So much to do, and so little time: How to manage my work?** Understand and implement strategies for workload management
- ✦ **Feeling Stressed: Why, when and how to cope with it?** Understand the basic stress triggers, signs and coping strategies

#### Training Module Format:



- ✦ Synchronous to stimulate communication among participants
- ✦ Asynchronous to allow the completion of the course in one's pace
- ✦ Assessment activities throughout the course

#### Training provider: QSR

For more information about the training, please contact Marta Pinto ([mpinto@qsr.consulting](mailto:mpinto@qsr.consulting)).

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