Dubai Future Academy

Courses 2021

We train for resilience and transfor- mation.

Dubai Future Academy is <u>a knowledge hub for those creating the future.</u> It equips them with the skills and tools that they will need for an ever-changing world.

Course Offerings
2021

Futures Methodologies

Foresight Skills

Give us the methodologies and tools to imagine and create pathways to the next phase of our societies

Futures Technologies

Technical Skills

Provide us with a solid understanding of the key technological enablers that can massively improve our resource efficiency

Futures Literacy

Human Skills

Help us understand and become aware of how we use futures

	Foundational Courses				
01	Foundations of Foresight	01	Foundations of Emerging Technologies	01	Foundations of Futures Literacy
	Additional Courses				
02	Exploring Future Scenarios 1.0	02	The AI Revolution	02	Connecting to the Future
03	Applying Horizon Scanning	03	Essentials of Blockchain		
04	Strategic Foresight	04	Essentials of IoT		
05	Systems and Long-term Thinking	05	Essentials of VR & AR		
06	Ethics of Foresight	06	Essentials of 3D Printing		

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*All courses are in compliance with the "Dubai Government Excellence Program"

Course Calendar
2021

Futures Methodologies

Futures Technologies

Futures Literacy

JAN 2021

- Foundations of Foresight
10 – 12 January

- Foundations of Emerging Technologies
13 – 14 January

- Foundations of Futures Literacy
17 – 19 January

- Foundations of Foresight
19 – 21 January

- Foundations of Emerging Technologies
24 – 25 January

- Foundations of Futures Literacy
26 – 28 January

FEB 2021

- Foundations of Foresight
1 – 3 February

- Essentials of Blockchain
2 – 4 February

- Foundations of Futures Literacy
7 – 9 February

- Applying Horizon Scanning
10 – 15 February

- Systems and Long-term Thinking
17 – 22 February

- Foundations of Emerging Technologies
24 – 25 February

- Essentials of Blockchain
28 February – 2 March

MAR 2021

- Foundations of Emerging Technologies
3 – 4 March

- Ethics of Foresight
7 – 8 March

- The AI Revolution
9 – 11 March

- Exploring Future Scenarios 1.0
10 – 15 March

- Foundations of Futures Literacy
16 – 18 March

- Foundations of Foresight
21 – 23 March

- Strategic Foresight
24 – 29 March

- Connecting the Future
31 March – 5 April

MAY 2021

- Foundation of Foresight
30 May – 1 June

JUN 2021

- Foundations of Emerging Technologies
2 – 3 June

- Foundations of Futures Literacy
6 – 8 June

- Foundations of Foresight
8 – 10 June

- Foundations of Emerging Technologies
13 – 14 June

- Foundations of Futures Literacy
15 – 17 June

- Essentials of IoT
20 – 22 June

- Connecting the Future
23 – 28 June

- Strategic Foresight
30-June – 5 July

JUL 2021

- Systems and Long-term Thinking
7 – 12 July

- The AI Revolution
13 – 15 July

AUG 2021

- Essentials of Blockchain
31 August – 2 September

SEP 2021

- Foundations of Foresight
5 – 7 September

- Foundations of Emerging Technologies
8 – 9 September

- Foundations of Futures Literacy
12 – 14 September

- Foundations of Foresight
14 – 16 September

- Foundations of Emerging Technologies
19 – 20 September

- Exploring Future Scenarios 1.0
22 – 27 September

- Foundations of Futures Literacy
28 – 30 September

OCT 2021

- Ethics of Foresight
3 – 4 October

- Essentials of Blockchain
5 – 7 October

- Essentials of VR + AR
10 – 12 October

- Strategic Foresight
13 – 18 October

- Essentials of 3D Printing
19 – 21 October

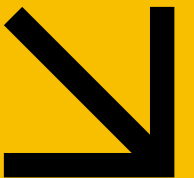- Applying Horizon Scanning
27 October – 1 November

NOV 2021

- Foundations of Foresight
7 – 9 November

- Foundations of Emerging Technologies
10 – 11 November

- Foundations of Future Literacy
14 – 16 November

- Foundations of Foresight
16 – 18 November

- Foundations of Emerging Technologies
21 – 22 November

- Foundations of Future Literacy
23 – 25 November

DEC 2021

- The AI Revolution
5 – 7 December

- Connecting the Future
8 - 13 December

- Systems and Long-term Thinking
15 – 20 December

Futures
Methodologies

Foundations of Foresight

Duration: 2.5 days

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a. Overview

This course is an intensive introduction to the world of futures thinking and strategic foresight.

It will provide participants with an outline of all the major futures studies and foresight methodologies and terms, including scenario planning, horizon scanning, weak signals and megatrends, systems thinking, Delphi method, wild cards etc. as well as some practical understanding of how to apply them.

b. Outline

- Origins and development of futures thinking

- Role of foresight in today's world

- Key concepts of foresight

- Scenario planning, horizon scanning, megatrends, weak signals and wild cards

- How to apply foresight methods in our work

- Exercises and groupwork

c. Learning Outcomes

- To understand the benefits of systematic futures thinking

- To know the basic futures studies methodologies

- To have a capacity to apply futures studies in your own work

- To provide a knowledge base for further courses and training at the Dubai Future Academy

d. Target Audience

This course is intended for government employees from all sectors and all levels, as well as external participants.

This course will provide the participants with practical tools to apply foresight by experimenting plausible possible future options.

e. Pre-requisite

Completion of foundational courses are prerequisites to progress to advanced courses.

If you have prior exposure in foresight, you do not need to take the Foundations of Foresight course. Please share proof of this in your application response.

Exploring Future Scenarios

Duration: 4 days

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a. Overview

This course familiarizes participants with the core elements of scenario building, which is a foundational part of futures studies.

The scenario method is a tool which helps us anticipate, plan and strategize future options and major uncertainties. Using the scenario method leads us to understand embedded realities, dynamics and systems, as well as the risks and opportunities of the future, while spotting the issues that may be hidden or underestimated.

b. Outline

- Background to scenario thinking

- Scenarios in strategic decision-making

- Characteristics of scenarios

- Cross-impact analysis in scenario work

- Scenario types and number of scenarios

- Scenario logic and examples of scenarios

- Guided scenario group exercises

c. Learning Outcomes

- To know what scenarios are used for

- To understand the process of scenario building

- To be able to build scenarios and apply them

d. Target Audience

This course is intended for government employees from all sectors and all levels, as well as external participants.

This course will provide the participants with practical tools to apply foresight by experimenting plausible possible future options

e. Pre-requisite

No prior knowledge is needed.

02

Applying Horizon Scanning

Duration: 4 days

*Participants who complete all Futures Methodologies courses will receive a **Futures Methodologies Diploma** from the Dubai Future Foundation.

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a. Overview

This course will introduce participants how to understand the emerging trends, issues and signals in fast changing environments.

The concept of horizon scanning is explained and applied. We explain how horizon scanning is implemented in different countries and organizations, using both public and private sector case studies. We demonstrate how to apply horizon scanning in Dubai.

b. Outline

- What is Horizon Scanning

- History of Horizon scanning

- How do we do Horizon Scanning processes on national and international levels

- Horizon Scanning on the corporate level

- Using a Horizon Scanning software solution

- Horizon Scanning in governmental units in Dubai: case of Dubai Police

- Exercises and groupwork

c. Learning Outcomes

- To know the essence of the concept of Horizon Scanning

- To understand how Horizon Scanning has been used and can be used in public and private sectors

- To familiarize with the key tools and frameworks used in Horizon Scanning

- To realize the systematic potential to map information about the future, which Horizon Scanning offers

d. Target Audience

This course is intended for government employees from all sectors and all levels.

This course will help participants grasp the basic tools and methods of horizon scanning, leading to being able to map and analyze information about the future in a systematic way.

e. Pre-requisite

Foundations of Foresight course or similar knowledge.

Strategic Foresight

Duration: 4 days

*Participants who complete all Futures Methodologies courses will receive a **Futures Methodologies Diploma** from the Dubai Future Foundation.

*All courses are in compliance with the "Dubai Government Excellence Program"

a. Overview

This course will introduce participants how to apply futures thinking for strategic activities in fast changing environments.

The concept of strategic foresight is explained. We explain how strategic foresight is conducted in different countries and organizations. We demonstrate how strategic foresight is done in Dubai.

b. Outline

- What is strategic foresight

- History of strategic foresight

- How do we do strategic foresight processes on national level

- Strategic foresight on the corporate level

- Strategic foresight in governmental units in Dubai: cases of RTA

- Exercises and groupwork

c. Learning Outcomes

- To know the essence of the concept of strategic foresight

- To understand how strategic foresight has been used in public and private entities

- To familiarize with the key tools used in strategic foresight

- To realize the use of systematic potential strategic foresight involves

d. Target Audience

This course is intended for government employees from all sectors and all levels who wish to deepen their knowledge on strategic foresight.

e. Pre-requisite

Foundations of Foresight course or similar knowledge.

Systems and long-term thinking

Duration: 4 days

*Participants who complete all Futures Methodologies courses will receive a **Futures Methodologies Diploma** from the Dubai Future Foundation.

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a. Overview

This course will provide the means for participants to anticipate long-term dynamic development of societies.

This is done by providing a solid framework of understanding regarding how industrial societies have developed and changed over the long term. This course will provide a clear idea of the benefits of systems thinking. Participants are enabled to see the futures in different ways and to understand the opportunities and risks that lie ahead.

b. Outline

- The importance of long-term dynamics of socio-economic development

- Patterns and how to detect them

- The basics of systems thinking and how to apply it

- Characteristics of each socio-economic wave

- The five 'Kondratieff waves' of development from the birth of industrialization to the present

- The next, sixth wave of development

- How to apply wave approach to our own work

c. Learning Outcomes

- To comprehend the long-term dynamics of technological, economic and social change

- To understand the benefits of systems thinking

- To understand the next, upcoming wave and being able to prepare for it

- To have new tools to assess and improve the strategy of your own organization

- To learn a more constructive and positive outlook towards the future

d. Target Audience

This course is intended for mid to upper management government employees dealing with strategic work

e. Pre-requisite

Completion of foundational courses are prerequisites to progress to advanced courses.

If you have prior exposure in foresight, you do not need to take the Foundations of Foresight course. Please share proof of this in your application response.

Ethics of Foresight

Duration: 2 days

*Participants who complete all Futures Methodologies courses will receive a **Futures Methodologies Diploma** from the Dubai Future Foundation.

*All courses are in compliance with the "Dubai Government Excellence Program"

a. Overview

This course is an introduction to ethics specifically for future thinking and foresight, with some elements of governance, transparency, trust but also strategy, management and planning.

It will prepare participants to consider the ethical consequences of innovation and change, and provide them with a Know-How to prepare for anticipated shifts, and consider an ethical framework.

b. Outline

- Origins and development of ethics of foresight

- Examples of ethics and foresight

- Innovation and change

- A consideration of ethical consequences

- How to consider and ethical platform

- Exercises and groupwork

c. Learning Outcomes

- To understand the ethical risks

- To know basic future systems and outcomes

- To learn how to apply ethics when developing foresight

- To provide a knowledge base on ethics of foresight
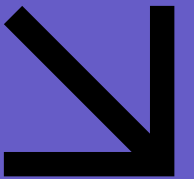
d. Target Audience

This course is intended for government employees from all sectors and all levels.

This course will help participants grasp the basic of ethics of foresight, leading to better and more informed decisions about the future.

e. Pre-requisite

No prior knowledge is needed.

Futures
Technologies

Foundations of Emerging Technologies

Duration: 2.5 days

a. Overview

This course is an intensive introduction to the world of emerging trends in future technologies.

It will provide participants with an outline of some of the main trends in future technologies and their application both in Dubai as well as globally. The students will be introduced to the ideas around Future Technologies through easy-to-grasp real life examples and interactive learning. The course consists of 4 days of classroom learning.

b. Outline

• Technology Foresight and Trends in Emerging Technologies

• Role of Future Technologies in economic and human development

• Key concepts of Future Technologies

• Case studies of Future Tech implementation in Dubai and the UAE

• How to apply Future Technologies in our work

c. Learning Outcomes

• Participants will understand the emerging trends in technology

• Participants will learn about the basic terms and concepts around Future Technologies

• Participants will gain capacity to know which Future Technologies would be relevant to their organization and where to find more information on them

d. Target Audience

This course is intended for government employees from all sectors and all levels.

This course will help participants understand the emerging trends in technology, leading to better and more informed decisions about how to incorporate technology to achieve the visions and agreed objectives in Dubai and the UAE .

e. Pre-requisite

No prior knowledge is needed.

Foundational courses are pre-requisites to progress to advanced courses.

01

The AI Revolution

Duration: 2.5 days

a. Overview

This course is an intensive introduction to the world of artificial intelligence and machine learning.

It will provide participants with an outline of all the major concepts around artificial intelligence and its current applications (with a focus on deep and machine learning), both in Dubai as well as globally. The aim of this course is to provide a clear understanding of the key concepts and evolution of artificial intelligence and machine learning, globally and specifically in Dubai and the UAE.

b. Outline

• Origins and development of Artificial Intelligence

• Role of AI in today's world

• Key concepts of AI and ML

• Case studies of AI/ML being implemented in Dubai and the UAE

• How to apply AI and ML methods in our work

• Exercises and groupwork

c. Learning Outcomes

• Participants will acquire knowledge of the basic methodologies of AI

• Participants will understand the benefits of using AI and ML

• Participants will be able to understand the possibilities for using AI and machine learning in real-life situations

• Participants will gain a knowledge base for further courses and training at the Dubai Future Academy

d. Target Audience

This course is a good fit for those who want to understand better how Artificial Intelligence and Machine Learning could be applied in their work environment.
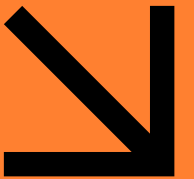
This course provides a simplified yet practical introduction on how AI and ML are shaping our lives and industries as we speak.

e. Pre-requisite

Participants do not need to have any prior knowledge of Artificial Intelligence or Machine Learning.

The course is not technical and is especially designed for people with no technical background.

02

Futures
Literacy

Foundations of Futures Literacy

Duration: 2.5 days

a. Overview

This course is an intensive introduction to the world of Futures Literacy.

It will provide participants with an outline of three levels of futures literacy comprising of cognitive, motivational and dynamic capacities. This course will explore the essential 21st century skills needed in a more complex and everchanging world. Participants will navigate different tools towards building a future-oriented mindset for an active participation and contribution to our world.

b. Outline

- What is Futures Literacy

- Origins of Futures Literacy

- Why Futures Literacy is important today

- Cognitive capacity in Futures Literacy

- Motivational capacity in Futures Literacy

- Active skills and their role in Futures Literacy

- Exercises and groupwork

- Teams presentations

c. Learning Outcomes

- Participant will explore and gain tools for a future oriented mindset

- Participant will learn about active skills and its applications

- Participant will gain capacity to apply futures literacy at work and life

- Participant will have access to further Futures Literacy training at the Dubai Future Academy

d. Target Audience

This course is intended for government employees from all sectors and all levels.

This course will help participants shift towards a future-orientated mindset, leading to better and more informed decisions about the future.

e. Pre-requisite

No prior knowledge is needed.

Foundational courses are pre-requisites to progress to advanced courses.

01

Connecting the Future

Duration: 4 days

a. Overview

This course will teach participants to explore, study and practice the skills, tools and philosophy of connecting to the future.

Participants can prepare for a very active program in which we exercise new skills, challenge some of our beliefs about the past, the now and the future and tap into the deeper dynamic insights and motivations. The aim of the course is to acquire a clear understanding of how a connection to the future is established at work, in organizations and/or personal life.

b. Outline

- Exploration of four fields of information processing: sensing, thinking feeling and being

- Exploring and practicing interventions in the four fields of information

- The philosophy behind connecting to the future

- Designing a connection to the future

- Groupwork and presentations

c. Learning Outcomes

- Participants will observe our environment in a more productive way

- Participants will communicate their intentions in a clear manner

- Participants will learn to collaborate in an effective way

- Participants will build resilience and agility into community by becoming aware of unconscious behavior

- Participants will improve their leadership skills by knowing how to get over fixed opinions and frames of thought

d. Target Audience

This course is intended for government employees from all sectors and all levels.

e. Pre-requisite

Completion of foundational courses are prerequisites to progress to advanced courses.

If you have prior exposure in foresight, you do not need to take the Foundations course. Please share proof of this in your application response.

02

For more information:

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