Logosworld
Digital Skill Academy
Executive Education

Logosworld Professional Education for Management and Digital Future

Course Catalogue - 40future.com

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Agriculture 4.0 Executive Brief

Introduction to Agriculture 4.0 in high population emerging countries

For countries with fast growing population like in Africa or Asia it is an eminent need to make their agriculture efficient, self-sustaining and resilient against pests and climate changes. Industries 4.0 can help small farmers to build an efficient local agriculture in rural places to become independent from the hegemonial heritage.

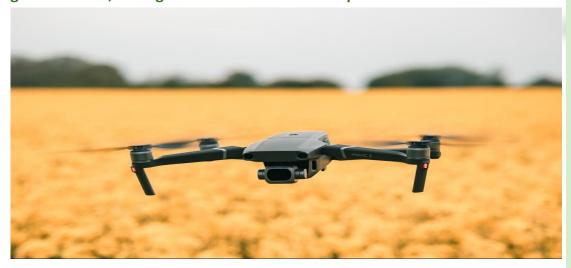## This course is for you if you want to understand

- How the concept of Industries 4.0 translates into Agriculture 4.0
- How Agriculture 4.0 can help small farmers
- How technology helps to defeat pests and natural disasters
- How technology helps to create a sustainable agriculture
- Technology used in breeding and cultivation and wild life protection
- How technology helps farmers to sell agriculture better

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Introduction to Agriculture 4.0 in high population emerging countries

The goal of this course is to lift executives and policy makers into a position to understand how nations with fast growing population can benefit from the Industry 4.0 design concept to leverage agriculture, farming and wild-life to get a resilient, ecological and sustainable food production.

1 Day version
3 Days version

Agriculture is the chance of the century for all emerging countries with a fast-growing young population. Agriculture 4.0 adopts the design concept of Industries 4.0 to create smart platform economies for sharing resources in agriculture, farming, environment and wild life. Artificial Intelligence will improve planting and breeding and opens up new markets. It helps emerging countries to find recipes for sustainable local solution to feed and employ the growing population without forcing them to migrate to metropolitan areas.

Why to attend?

Executives and policy makers who look for inspiration how technology can help them to cope with the challenges of agriculture, farming and fishing, environment and wild life in harmony with nature.

Target Audience

Be a subject expert in agriculture, policy making or computer engineering.

Prerequisites

Participants will receive the Blue Elefant Certificate of Excellence.

Certification

Course Content

Compact introduction to terminology, use cases and implementation for Agriculture 4.0 including farming, wild-life and environment.

- Connected Industries 4.0
- Use cases in agriculture
- Disruptive agriculture models
- Technology for Agriculture 4.0
- Machine learning: Analysing Data

- Cyber-system, drones and robots
- Security, Safety, and Blockchains
- How machines can talk to humans
- Artificial Intelligence
- Project Management for Industries 4.0

- 1 day: Introduction
- 3 days: Advanced level and in-depth discussion

Course Duration

Course Layout

A short crash course meant to give an exhaustive understanding to executives, corporate decision makers and policy makers.

Concept of Industries 4.0 and Agriculture 4.0

Agree a common understanding and scope of Agriculture 4.0 and review the terminology to be used to avoid a Babylonian language muddle.

- Connecting Analog Machines to Digital Computers;
- Woven production; Autonomous vehicles; Sharing and Platform Economy

Use cases in agriculture

Agriculture 4.0 is a practice-oriented design concept to use technology to make Industrial works more productive, efficient and ecological.

- Manufacturing 4.0, Agriculture 4.0, Health Care 4.0, Logistics 4.0, Education 4.0
- Benefits, Risks and Disruptive business models

Disruptive business models for Agriculture 4.0

Agriculture 4.0 promises new business models that give chances for Africa and especially the smaller farmers.

- Manufacturing 4.0, Agriculture 4.0, Health Care 4.0, Logistics 4.0, Education 4.0
- Benefits, Risks and Disruptive business models

The technology required to implement Industries 4.0

Agriculture 4.0 depends on the availability of a stable ubiquitous internet and a range of devices and their clever software.

- Internet Infrastructure; Data Storage, Data Management, Enterprise Service Bus
- Practical approach to retrofit existing industries to Industries 4.0

Machine learning: From data to analytics

The Alpha and Omega of Industries 4.0 is the acquisition of data from all kind of sources, predominantly from physical devices like sensors.

- Data Acquisition, Data Aggregation and Pooling
- Data Analytics: Descriptive Analysis, Diagnostics, Prediction, Prescription

Security, Safety and Blockchains etc.

Securing the functioning of the technology and making transactions safe is a prime concern. What role plays blockchain here?

- Security, Safety, Privacy, Blockchains etc.
- Data privacy, digital Rights management, making money with data

Artificial Intelligence

Artificial Intelligence is technologies that compiles information and derived results to simulate possible scenarios and assist conclusions.

- How machines can easily interact with humans
- Machine Learning, Learning Machines, Machine games, Darwin Machines

Project Management for Agriculture 4.0

Introducing and orchestrating Agriculture 4.0 are complex projects that require adopted agile project management styles.

- Evolution by Design: Strategies to keep controlled in a shared economy
- Standard Operation Procedures to control human-machine cooperation

Logosworld Skill Development

Logosworld is a German International management advisory that specializes in helping enterprises to stay up to date with current development in digitalization and master implementations.

Media	Recordings	Mentoring	Practice
Presentation	Learning Videos	Practice Workshops	Exercises
Course Handouts	Lecture recording	Discussion forum	Pre-Exam
Documentation is provided in electronic form including presentations and bonus readings and media.	Courses are available as online recording and as a personal session recording for your internal use.	Some courses are held as colloquium and workshop where mentors directly interact on concrete tasks.	In practice workshops we jointly build a prototype to implement the theory in a working demo solution.

The core need of high technology consulting is skill development and knowledge transfer. Hence, Logosworld spends a large part of its activities in bringing teaching materials and subject up to date to give professionals exactly the knowledge that they need to understand and apply the technologies of their era.

Logosworld offers pre-designed and bespoke education curriculae for a practice-oriented skill development in the sector of Digital Transformation and Next Generation Computing. We offer modules for skill building to industry professionals, higher level students and post-graduates of any technology oriented subject matter to bring their knowledge and practical skills to the required level to be applied immediately in professional industry context.

Contact

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Education creates self-esteem. Education is future.