TOPIC-SPECIFIC LEARNING JOURNEY

COURSE PACKAGE:

"COMMODITIES"



ENTRIMA's Learning Platform lists a wide range of courses, all related to markets & trading. Some of these courses have been bundled to form a course package, as they all concerns the same field of expertise.

The Course Package "**Commodities**" consists of the following courses:

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4.	Metals trading, derivatives & hedging	6
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Each of these courses ends with an exam. Upon passing the exam the learner will be certified instantly. The contents, duration and level of each course is set out in the pages hereafter.

Total duration*) of all ten (**10**) courses together: **440** minutes

- **Study hours:** **8**
- **CPD points:** **8**

*) *Excluding examination*

COURSE:
COMMODITIES

This course sets out some of the basics regarding natural resources and classifies different groups of natural resources. Analogously, commodities are set out and classified. Last, but not least, attention is given to the supply chain and some related concepts, activities and terminology.

This course covers the following video lessons:

1. Natural Resources – Definition
2. Natural Resources – Categories – Ubiquitous versus localised resources
3. Natural Resources – Categories – Biotic versus abiotic resources
4. Natural Resources – Categories – Renewables versus non-renewables
5. Natural Resources – Categories – Actual versus potential resources
6. Natural Resources – Natural resource management
7. Commodities – Definition
8. Commodities – Asset classes
9. Commodities – Classifications
10. Commodities – Indirect investments
11. Commodities – Commoditisation
12. Commodities – Capacity as tradable product
13. Commodities – Complexity of commodity markets
14. The supply chain – The value chain
15. The supply chain – Up-, mid- and downstream
16. The supply chain – Time horizon
17. The supply chain – Trading activities

A. Examination
B. Certification

❖	Level:	Basic	No prerequisites
❖	Intensity:	40 minutes	Including examination
❖	Language:	Voice & text	English
❖	Including:	Examination	Certification upon passing

COURSE:
THE COMMODITY SUPPLY CHAIN

This course sets out the critical pathways through which raw materials travel from their point of origin to the end-consumer. This course sets out the upstream, midstream and downstream activities. Attention is also given to the quality of commodities and how that impact pricing. The course ends with the distribution of commodities and related aspects.

This course covers the following video lessons:

1. Introduction to the commodity supply chain
2. The quality of commodities
3. Upstream activities – Exploration & production
4. Midstream activities – Transportation & storage
5. Downstream activities – Processing
6. Distribution & consumption
7. Challenges & opportunities in the commodity supply chain
8. Sustainability & the future of the commodity supply chain

A. Examination
B. Certification

❖	Level:	Basic	No prerequisites
❖	Intensity:	30 minutes	Including examination
❖	Language:	Voice & text	English
❖	Including:	Examination	Certification upon passing

COURSE:
METALS

This crash courses concerns the basics of metals. It covers the fundamentals of corrosive and non-corrosive metals. Attention is also given to the pricing of metals.

This course covers the following video lessons:

1. Introduction
2. Chemistry
3. Exploitation, extraction & processing
4. Alloys
5. Consumption
6. Precious metals
7. Gold
8. Industrial metals
9. Rare earth metals
10. Price driving factors

A. Examination
B. Certification

❖ Level:	Basic	No prerequisites
❖ Intensity:	20 minutes	Including examination
❖ Language:	Voice & text	English
❖ Including:	Examination	Certification upon passing

COURSE:
METALS TRADING, DERIVATIVES & HEDGING

This course covers metal derivatives contracts. It is explained what these concerns and what they are used for. It is also set out what role the London Metals Exchange plays and how related aspects are organised.

This course covers the following video lessons:

1. Metal markets & trading
2. London Metal Exchange
3. Price discovery
4. LME - Price-indexation
5. Warehouses
6. Warehouse receipts
7. Metal futures
8. Metal options
9. Hedging metal exposures with futures
10. Hedging metal exposures with options

A. Examination
B. Certification

❖ Level:	Intermediate	Prerequisite: “Metals”
❖ Intensity:	25 minutes	Including examination
❖ Language:	Voice & text	English
❖ Including:	Examination	Certification upon passing

COURSE:
AGRICULTURAL COMMODITIES

This crash courses concerns the basics of soft commodities, including agricultural products and tropical products. It covers the fundamentals of grains, beans, livestock, poultry, eggs and butter. Attention is also given to the pricing of these products.

This course covers the following video lessons:

1. Introduction
2. Supply chain
3. Price driving factors
4. Grains
5. Beans
6. Tropical products
7. Dairy, livestock & meat
8. Soybeans – Crush margin
9. Bio-energy
10. Food-feed-fuel

A. Examination
B. Certification

❖	Level:	Basic	No prerequisites
❖	Intensity:	20 minutes	Including examination
❖	Language:	Voice & text	English
❖	Including:	Examination	Certification upon passing

COURSE:
AGRICULTURAL COMMODITIES TRADING, DERIVATIVES & HEDGING

This course covers agro derivatives. It is explained what these are and how they can be applied. It is also set what strategies can be set up to mitigate risk and what risks appear in return.

This course covers the following video lessons:

1. Trading
2. Price exposure - A physical long position
3. Price exposure - A physical short position
4. Hedging a physical long agro position with futures
5. Hedging a physical short agro position with futures
6. Hedging a physical long agro position with options
7. Hedging a physical short agro position with options
8. Soybeans - Crush spread trading
9. The basis
10. Basis risk

A. Examination
B. Certification

❖ Level:	Intermediate	Prerequisite: “Agricultural Commodities”
❖ Intensity:	30 minutes	Including examination
❖ Language:	Voice & text	English
❖ Including:	Examination	Certification upon passing

COURSE:
BIO-ENERGY

Biofuels include bio-liquids and biomass. Bio-liquids consist of bio-ethanol and biodiesel, whereas biomass includes wood pellets. Biofuels can be used to replace fossil fuels.

This course covers the following video lessons:

1. Introduction
2. Solid biomass – Wood pellets
3. Solid biomass – Chips
4. Solid biomass – Pricing
5. Liquid biofuels – Introduction
6. Liquid biofuels – Bio-ethanol
7. Liquid biofuels – Biodiesel
8. Liquid biofuels – Pricing
9. Biogas
10. Ethics

A. Examination
B. Certification

❖ Level:	Basic	No prerequisites
❖ Intensity:	25 minutes	Including examination
❖ Language:	Voice & text	English
❖ Including:	Examination	Certification upon passing

COURSE:
HYDROGEN – *INTRODUCTION*

This crash courses concerns the value chain of hydrogen. Therefore, it covers production, consumption, storage and transport. Various techniques are covered, but in a nutshell. This course covers the basics in a generic manner.

This course covers the following video lessons:

1. Basics of hydrogen
2. Hydrogen production
3. Hydrogen consumption
4. Brown, grey, blue & green hydrogen
5. Hydrogen transport
6. Hydrogen storage
7. Wholesale market development

A. Examination
B. Certification

❖	Level:	Basic	No prerequisites
❖	Intensity:	20 minutes	Including examination
❖	Language:	Voice & text	English
❖	Including:	Examination	Certification upon passing

COURSE:
HYDROGEN MARKETS & TRADING

This sequence of bite-size video lessons covers video lessons in the form of question and answer (Q&A).
The series is about alle relevant aspects of the markets in which hydrogen is traded as well as some key themes related to the trading of the liquid.

This course covers the following topics:

1.	Introduction	*30 videos*
2.	Colours	*30 videos*
3.	Production Technologies	*30 videos*
4.	Storage & Transport	*28 videos*
5.	End-use Applications	*20 videos*
6.	Market Fundamentals	*25 videos*
7.	Trading & Pricing Mechanisms	*26 videos*
8.	Hydrogen Certification	*30 videos*
9.	Hydrogen Hubs & Market Development	*30 videos*
10.	Hydrogen and Renewable Energy Integration	*33 videos*
11.	Economics of Hydrogen Projects	*34 videos*
12.	Challenges & Barriers to Hydrogen Adoption	*33 videos*
13.	Environmental Impacts of Hydrogen	*32 videos*

A. Examination
B. Certification

❖	Level:	Basic	No prerevquisites
❖	Intensity:	200 minutes	Including examination
❖	Language:	Voice & text	English
❖	Including:	Examination	Certification upon passing

COURSE:
HEAT

This crash courses concerns the supply chain of heat. Therefore, it covers heat generation as well as consumption, storage and transport. Various techniques are covered, but in a nutshell. This course covers the basics in a generic manner.

This course covers the following video lessons:

1. Introduction
2. Thermal heat
3. Heating
4. By-product
5. Combined heat & power
6. Heat storage
7. Heat transfer
8. Industrial consumption
9. Heat supply contracts
10. Must run
11. Pricing & valuation
12. The heat market

A. Examination
B. Certification

❖	Level:	Basic	No prerequisites
❖	Intensity:	30 minutes	Including examination
❖	Language:	Voice & text	English
❖	Including:	Examination	Certification upon passing