Education lesson inventory

Premium courses

CME Institute Live: Financial Futures & Options Workshop

Overview

Chapter 1: Introduction to CME Group and fundamentals of financial futures and options
- Introduction to CME Group
- Introduction to FX futures
- Introduction to equity index futures
- Introduction to interest rate futures - US treasury foundations
- Introduction to Short-Term Interest Rates (STIRs)
- Introduction to options

Chapter 2: Practical applications and strategies of financial futures and options
- FX futures and options
- Short-Term Interest Rate Futures and Options (STIRs) 2.0
- US treasury futures and options 2.0
- Equity index futures and options 2.0

CME Institute premium courses consist of instructor-led lessons developed with a specialized, deeper focus on the content and additional learning components. Premium courses require a CME Group Login. Log in or create a free account to access premium content on cmegroup.com

Updated January 2022
Master the Trade: Futures

Overview

Chapter 1: Expanding your futures knowledge
   Comparing stock trading with futures trading
   Contract specifications
   Physical delivery vs. cash settlement
   Understanding product moves
   Economic events

Chapter 2: Take your trade plan to the next level
   Download the trade plan
   What kind of trader am I?
   What does risk actually mean?
   Managing futures risk
   Utilizing stop orders

Chapter 3: Practice what you’ve learned
   Drawing trade trendlines
   Defining your parameters for exiting a trade
   Entering a trade using moving averages

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General futures courses

**Introduction to futures**
- Definition of a futures contract
- Learn about contract specifications
- Understanding contract trading codes
- Get to know futures expiration and settlement
- Tick movements: understanding how they work
- What are price limits and price banding
- About contract notional value
- Mark-to-market
- Margin: know what’s needed
- Understanding futures expiration and contract roll
- Price discovery
- Calculating futures contract profit or loss
- Understanding the role of speculators
- Understanding the role of hedgers
- Trading venues (pit vs online)
- Midwest grain trade: history of futures exchanges
- Futures contracts compared to forwards
- What is volume
- Open interest

**Things to know before trading CME Group futures**
- Getting started with your broker
- Submitting a futures order
- Futures order types
- What happens when you submit an order
- Position and risk management
- Closing your position

Add'l languages: FR | DE | ES | NE
Add'l languages: 简体中文 | 한국어 | HE | FR | DE | ES | NE
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*New language offerings as of January 2022*
Trading psychology
- Emotional intelligence
- The importance of self-confidence
- The mathematics of trading success
- Planning for trading losses
- Making it real
- Qualities of successful traders

Learn about key economic events
- What is gross domestic product (GDP)?
- About the retail sales report
- What is the non-farm payroll report?
- Understanding consumer price index and product price
- Understanding U.S. Housing data
- What is the European central bank?
- Understanding the FOMC report
- Understanding the oil data report
- The importance of consumer confidence surveys

Understanding Micro futures contracts at CME Group
Micro WTI Crude futures
- Micro WTI Crude Oil futures overview
- Option hedging with Micro WTI Crude Oil futures
- Managing expiration of the Micro WTI Crude Oil futures contract

Micro Treasury Yield futures
- Micro Treasury Yield futures overview

Micro FX futures
- Micro FX futures product overview

Micro E-mini futures
- Micro E-mini futures products overview
- Hedging with Micro E-mini futures
- Managing Micro E-mini futures expiration
Micro E-mini options
Get to know options on Micro E-mini futures
Understanding listings and expirations
Micro E-mini Options Strategies

Micro Bitcoin futures
Micro Bitcoin futures product overview
Managing Micro Bitcoin futures expiration

Micro Gold and Silver
Micro Gold and Silver futures overview

Understanding the benefits of futures
The benefits of portfolio diversification
The benefits of day trading futures
The benefits of liquidity
Managing contract expiration
The benefits of futures margin
The benefits of open access to futures
The power of leverage
Understanding the benefits of the bid-offer spread

Futures vs. ETFs
What is an ETF?*
Why trade futures instead of ETFs?
Reasons to trade E-mini Russell 2000 futures over Russell 2000 ETF (IWM)
Options on futures vs ETFs*

Understanding futures spreads
Futures spread overview
Metals intramarket spreads
Eurodollar intramarket spreads
Grain intramarket spreads and storage
Rolling an equity position using spreads
Equity intermarket spreads
Gold and silver ratio spread
Learn about the 1:1 crack spread
Understanding intermarket spreads: platinum and gold
Treasury intermarket spreads – the yield curve
Spread trading with E-mini Russell 2000 futures

*New language offerings as of January 2022
General options courses

Introduction to options*
Introduction to options
Understanding option contract details*
Get to know underlying (options on futures)*
What is exercise price (strike)?
What is expiration date (expiry)?
Explaining call options (short and long)*
Explaining put options (short and long)*
Understanding am/pm expirations
Learn about exercise and assignment*
Understanding the difference:
European vs. American style options
Calculating options moneyness and intrinsic value*
Understanding options expiration (profit and loss)*
Introduction to options theoretical pricing
Discover options volatility
Put-call parity
Options on futures vs ETFs

Options on futures for equity traders
Trading options on futures using strategies you already know
Influence of pricing on the option for equity traders
Why options on futures gives added benefit of diversifying risk
Trading options during economic events

Option greeks
Options delta – the greeks
Options gamma – the greeks
Options theta – the greeks
Options vega – the greeks
Options premium and the greeks

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Add'l languages: 简体中文 | 繁體中文 | 한국어 | HE
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*New language offerings as of January 2022
Option strategies*
- Straddles*
- Strangles*
- Option butterfly*
- Option ratio spreads
- Option calendar spreads*
- Bull spread*
- Bear spread*
- Covered calls*
- Collars*

Introduction to CME Direct and QuikStrike analytics
- CMED market activity
- CMED quick options grid
- CMED QS spread analyzer
- CMED booking a clearport block
- CMED QS options calculator
- CMED creating a hedged strategy
- Event volatility calculator
- Open interest heatmap
- TWIO (This Week In Options)
- QuikVol tool

Introduction to CVOL
- Understanding the CVOL Index
- Introduction to CVOL Skew
- Learn about Convexity

Long options: underlying and volatility impact
- Long call scenarios
- Long put scenarios

*New language offerings as of January 2022
**Tools for Option Analysis**
- Options Calculator
- Event Volatility Calculator
- Open Interest Heatmap
- TWiO (This Week in Options)
- QuikVol Tool
- Strategy Simulator Overview
- FX Options Vol Converter

**General options**
- Add'l languages: 简体中文 | 繁體中文 | 한국어
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Ags courses

**Introduction to grains and oilseeds**
- Learn about agricultural markets
- Get to know agricultural options on futures
- Grain and oilseed overview
- Learn about corn production, use, and transportation
- Soybean production, use, and transportation
- Wheat production, use, and transportation
- Understanding grains volatility and supply and demand
- Understanding seasonality in grains
- Learn about basis: grains
- Learn about grain convergence
- How to hedge grain risk
- Grain intramarket spreads and storage
- Overview of grain intercommodity spreads
- Understanding soybean crush
- Understanding the grain delivery process
- Variable storage rate
- Understanding fertilizer futures
- Understanding the Soybean Oil delivery process**

**Introduction to livestock**
- The livestock overview
- Livestock hedging and risk management
- Fundamentals and their impact on livestock prices
- Learn about basis: livestock
- Understanding seasonality: livestock

**Understanding South American Soybean futures**
- South American Soybean futures product overview
- Trade the basis – North and South American soybean contracts

**New course offering as of January 2022**
Introduction to dairy

Dairy overview
Federal milk marketing orders
Dairy price reporting and settlement prices
Understanding supply and demand: dairy
CME dairy spot markets
Buying futures for protection against rising dairy prices
Selling futures for protection against falling dairy prices
Establishing a ceiling price by buying dairy call options
Establishing a floor price by buying dairy put options
Learn about dairy strips and spreads
Establishing a dairy selling price range
Establishing a dairy buying price range
Dairy basis

Hedging with grain and oilseed futures and options

Risk management strategies for buyers of commodities

Buying futures for protection against rising prices  Add'l language: HE
Establishing a ceiling price by buying grain call options  Add'l language: HE
Lowering a grain purchase price by selling put options  Add'l language: HE
Establishing a grain buying price range  Add'l language: HE
Comparing grain buying strategies  Add'l language: HE

Risk management strategies for sellers of commodities

Selling futures for protection against falling prices  Add'l language: HE
Establishing a floor price by buying put options  Add'l languages: ES | HE
Establishing a selling price range using grain options  Add'l language: HE
Increasing a grain selling price by selling call options  Add'l language: HE
Comparing grain selling strategies  Add'l language: HE

Hedging with livestock futures and options

Buying futures for protection against rising livestock prices  Add'l language: 简体中文
Establishing a ceiling price by buying grain call options  Add'l language: 简体中文
Establishing a buying price range for livestock  Add'l language: 简体中文
Selling futures for protection against falling livestock prices  Add'l language: 简体中文
Establishing a livestock selling price range  Add'l language: 简体中文
Establishing a floor price by buying livestock put options  Add'l language: 简体中文
Understanding livestock markets

Introduction to livestock
  The livestock overview
  Livestock hedging and risk management
  Fundamentals and their impact on livestock prices
  Learn about basis: livestock
  Understanding seasonality: livestock

Hedging with livestock futures and options
  Buying futures for protection against rising livestock prices
  Establishing a ceiling price by buying livestock call options
  Establishing a buying price range for livestock
  Selling futures for protection against falling livestock prices
  Establishing a floor price by buying livestock put options
  Establishing a livestock selling price range

Standalone lessons – agriculture
  What are short dated new crop options
  Trading at settlement (TAS) for agricultural futures
  Soybeans product overview
  Wheat product overview
  Corn product overview
  Live cattle product overview
  Lean hogs product overview
  Pork Cutout futures product
  Understanding Agricultural Calendar Spread options
  Global Activity in Agricultural Options

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Add'l languages: 简体中文 | 繁體中文

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Energy courses

**Introduction to energy**

**Introduction to power**
- Understanding basics of the power market
- Energy market and risk management with options
- Managing risk in the capacity market

**Introduction to natural gas**
- Natural gas overview
- Natural gas futures product overview
- Understanding Henry Hub
- Understanding supply and demand: natural gas
- Introduction to natural gas seasonality
- Understanding natural gas risk management spreads & storage
- Natural gas calendar spread options
- Gulf Coast LNG Export futures overview

**Introduction to crude oil**
- Discover WTI: A global benchmark
- WTI product overview
- Understanding crude oil in the United States
- The importance of Cushing, Oklahoma
- Introduction to European crude oil
- Brent crude product overview
- Learn about crude oil across Asia region
- Understanding commodity storage
- Crude oil: futures versus ETFs

**Introduction to refined products**
- A look into the refining process
- RBOB Product overview
- Learn about the crack spread
- Heating oil product overview
Understanding CBL Global Emissions Offset futures
Understanding the carbon offset market
CBL Global Carbon Emissions Offset (GEO) futures product overview

Basic principles of Micro WTI Crude Oil futures
Micro WTI Crude Oil futures overview
Option hedging with Micro WTI Crude Oil futures
Managing expiration of the Micro WTI Crude Oil futures contract

Add'l languages: 简体中文 | 繁體中文
Equity index courses

**Introduction to equity index products**
- What is an index future?
- Discover equity index notional value and price
- Understanding equity index daily and final settlement
- The importance of depth (volume)
- Who uses equity index products?
- What is equity index basis?
- Rolling an equity position using spreads
- Hedging and risk management for equity index futures
- Trading opportunities in equity index futures
- Equity intermarket spreads
- How to trade select sectors
- Understanding implied liquidity in select sector futures
- Communication services select sectors
- Understanding S&P 500 options block trades

**Learn about E-mini Russell 2000 futures**
- Introduction to E-mini Russell 2000 index futures contract
- Spread trading with E-mini Russell 2000 futures
- Reasons to trade E-mini Russell 2000 futures over Russell 2000 ETF (IWM)
- Monday and Wednesday options on E-mini Russell 2000 futures

**Portfolio management with equity index futures and options**
- Alpha/beta and portable alpha
- Cash equitization – cash drag in the cross hairs
- Transition management using stock index futures
- Beta replication and smart beta

**Introduction to TOPIX**
- What is TOPIX?
- Introducing TOPIX futures
- Migrating from iShares MSCI Japan ETF (EWJ) to TOPIX futures
- Basis trade at index close (BTIC) for TOPIX futures
Trading at a basis to an index (BTIC and TACO)

Understanding basis trade at index close (BTIC)
Basis trade at index close (BTIC) for TOPIX futures
Introduction to BTIC + and TACO +
BTIC + trading examples
Introduction to trade at cash open (TACO)
Basis trade at index close (BTIC) for Nikkei futures
BTIC on Cryptocurrency futures

Understanding the E-mini Nasdaq-100

E-mini Nasdaq-100 product overview
E-mini Nasdaq-100 futures contract vs FANGs
Why trade futures instead of ETFs?
E-mini Nasdaq-100 futures versus Nasdaq ETFs
TCA tool: cost efficiencies between Nasdaq-100 futures and ETF
Trading opportunities in equity index futures
Monday and Wednesday Weekly options on E-mini Nasdaq-100 futures (European-style)

Introduction to bitcoin*

What is bitcoin?*
Introduction to bitcoin reference rate*
What are bitcoin futures?*
Micro bitcoin futures product overview
Managing bitcoin futures expiration: rolling forward
Get to know options on bitcoin futures
Options on bitcoin futures - expiration date and strike price
BTIC on Cryptocurrency futures

Micro Bitcoin Basics

What is Bitcoin?
Introduction to Bitcoin Reference Rate*
Micro Bitcoin futures product overview*
Managing Micro E-mini futures expiration
BTIC on Cryptocurrency futures

*New language offerings as of January 2022

Add'l languages: 简体中文 | 繁體中文
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Introduction to ether

Ether futures product overview
Defining ether and ethereum
CME CF ether reference rate and real time index
Micro Ether futures product overview**

Micro E-mini futures

Micro E-mini futures products overview
Hedging with the Micro E-mini futures
Managing Micro E-mini futures expiration

Micro E-mini options

Get to know options on Micro E-mini futures
Understanding listings and expirations
Micro E-mini Options Strategies

Learn about VOLQ Futures

Nasdaq-100 Volatility Index (VOLQ) futures product overview
Trading the VOLQ futures contract

Understanding the Adjusted Interest Rate (AIR) Total Return futures contract
AIR (Adjusted Interest Rate) Total Return futures product overview
Trading the AIR Total Return futures
Trade aspects of the Adjusted Interest Rate (AIR) Total Return futures contract

Introduction to the Nasdaq Veles California Water Index (NQH2O) futures
Understanding the Nasdaq Veles California water index
Nasdaq Veles California Water Index (NQH2O) futures product overview

Equity ESG Essentials

Introduction to the E-mini S&P 500 ESG futures
E-mini S&P Europe 350 ESG futures product overview

**New course offering as of January 2022
Standalone lessons – equities

- E-mini S&P 500 product overview
- E-mini Dow product overview
- Nikkei product overview
- What is the Mutual Offset System?
- Understanding E-mini S&P 500 option block trades

Add'l languages: 简体中文 | 繁體中文
FX courses

Introduction to FX

What is FX
Understanding FX quote conventions
The importance of FX futures pricing and basis
Understanding the FX delivery and settlement process
How to manage risk in FX
A look at FX EFP

What is FX Link?

FX Link: What is it?
FX link: convert non-IMM dated to IMM-dated forward
FX link: offset FX hedge
FX link: swap replication
FX link: replacement of OTC FX option delta hedge
FX link: optimizing and exchange listed FX option hedge
FX link: hedge FX risk of a non-IMM dated FX exposure
Understanding FX Link with C-Cross

Standalone lessons – FX

Euro FX product overview
Japanese yen product overview
British pound product overview
Canadian dollar product overview
Australian dollar product overview
FX options expiration time change
Micro FX futures product overview

CME Institute Live: Micro FX futures**

Understanding the FX Market**
Contract specifications and futures contract pricing**
Trading Illustrations**

**New course and language offerings as of January 2022
Interest rates courses

**Introduction to treasuries**
- Learn about the treasuries delivery process
- Understand treasuries contract specifications
- The basics of treasuries basis
- Get to know treasuries CTD
- How can you measure risk in treasuries?
- Calculating U.S. Treasury pricing
- Treasuries hedging and risk management
- Treasury the treasury yield curve

**Add'l language:** 한국어

**Introduction to eurodollars**
- What is LIBOR/what is eurodollar
- Understanding IMM price and date
- What is the eurodollar settlement process (cash settled)
- The importance of BPV
- Understanding convexity bias
- Eurodollar intramarket spreads
- Understanding eurodollar strips
- The link between eurodollar futures pricing and the forward rate market
- Understanding packs and bundles
- Term mid-curve eurodollar options

**Add'l languages:** 繁體中文 | 한국어

**Introduction to SOFR**
- What is SOFR
- Trading SOFR futures
- A look at CME Term SOFR**

**CME Institute Live: Micro Treasury Yield futures**
- Underlying US Treasury Market**
- Contract Description and Terms**
- Case Studies and Analytical Tools**

**Add'l language:** 繁體中文

**Add'l languages:** 繁體中文

**New course and language offerings as of January 2022**
Understanding STIR futures

Introduction to STIR futures
Fundamentals and interest rate futures
Understanding IMM price and date
The link between eurodollar futures pricing and the forward rate market
What is the eurodollar settlement process (cash settled)
The importance of basis point value (BPV)
Understanding convexity bias
What is LIBOR/what is eurodollar
Understanding the FOMC report
Introduction to fed fund futures
Introduction to CME fed watch
What is SOFR
Trading SOFR futures
What is Sonia?
Trading Sonia futures

Introduction to Sonia

What is Sonia?
Trading Sonia futures

Standalone lessons – interest rates

Treasuries product overview
Understanding BrokerTec RV Curve
Micro Treasury Yield futures overview
CME Treasury Watch Tool basics
Metals courses

Introduction to precious metals

- Introduction to precious metals
- Understanding supply and demand: precious metals
- What is contango and backwardation
- How and where precious metals are traded
- What is the precious metals delivery process?
- Introduction to precious metals risk management/hedging and ratios
- Understanding the precious metals spot spread
- Gold and silver ratio spread
- Understanding intermarket spreads: platinum and gold

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Introduction to base metals

- Introduction to base metals
- Base metals supply and demand
- What is contango and backwardation
- Metals intramarket spreads
- What is the base metals delivery process
- Learn about base metals financing
- How to manage base metals risk management and hedging
- Cash flow in metals futures vs forwards

Add'l languages: 简体中文 | 한국어 | DE

Introduction to ferrous metals

- Understanding supply and demand: ferrous metals
- What is contango and backwardation
- Metals intramarket spreads
- Understand hedging and risk management in ferrous metals

Add'l languages: 한국어

Hedging price risk with steel futures contracts

- Steel futures contracts
- Hedging with Hot Rolled Coil (HRC) steel futures contracts
- Hedging with HDG Premium Steel futures
- Hedging with Northern European Hot-Rolled Coil steel futures

Add'l language: 한국어

Get to know Aluminum futures

- Aluminum futures product and delivery overview
- Understanding the aluminum auction

Add'l language: 한국어
Standalone lessons – metals

- Gold product overview
- Silver product overview
- Copper product overview
- Platinum product overview
- Palladium product overview
- Zinc futures overview
- Clearing London gold forwards
- SGE gold futures product overview
- Micro gold and Micro silver futures overview
- Hedging with copper futures
- ACE delivery process
- Hedging with Cobalt Metal (Fastmarkets) futures
- Hedging with Lithium futures

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Market regulation courses

Market regulation

Overview
- CME Group rules and regulation overview
- Market regulation: meet the team
  Add'l languages: 简体中文 | 한국어

Wash trades
- Wash trades – definition of a wash trade
- Wash trades – responsibility and implications
- Wash trades – automated trading systems
- Wash trades – freshening
  Add'l languages: 简体中文 | 한국어

EFRP
- EFRP – What is an EFRP?
- EFRP – parties to an EFRP
- EFRP – pricing and the related position for EFRPs
- EFRP – reporting and recordkeeping
- EFRP – prohibited transitory EFRPs
  Add'l languages: 简体中文 | 한국어

Block trades
- Block trades – What is a block trade?
- Block trades – participant eligibility
- Block trades – eligible products, times and prices
- Block trades – reporting and recordkeeping
- Block trades – pre-hedging
- Block trades – TAS, TAM and BTIC
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Disruptive practices prohibited
- Disruptive practices prohibited – general information
- Disruptive practices prohibited – factors mkt reg considers
- Disruptive practices prohibited – flipping
- Disruptive practices prohibited – spoofing
- Disruptive practices prohibited – additional examples
- Disruptive practices prohibited – FAQS
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CME Globex Operator ID requirements

- CME Globex tag Operator ID requirements – general rule
- CME Globex tag Operator ID requirements – registration and requirements
- CME Globex tag Operator ID requirements – individual and team Operator IDs

Pre-execution communications

- Pre-execution communications – overview and crossing protocols

Rule 524- TAS, TAM, BTIC and TACO

- Rule 524- TAS, TAM, BTIC and TACO

Enforcement process

- Enforcement process – introduction and initial referral
- Enforcement process – offer of settlement
- Enforcement process – settlement hearings
- Enforcement process – probable cause committee
- Enforcement process – default hearings
- Enforcement process – contested hearings
- Enforcement process – appeals
Clearing courses

Clearing

What is clearing?
Clearing market structure
Clearing house risk management
Clearing house activities
Clearing house account definitions

Add'l language: 한국어
Managed futures courses

Managed futures
- Evaluating CTAs quantitative and qualitative factors
- What are managed futures?
- Compelling reasons to allocate to managed futures
- Comparing CTA strategies
Trading and analysis courses

Building a trade plan
- Step 1. Your trade plan objective
- Step 2. Methodology behind your trade plan
- Step 3. Risk management and your trade plan
- Step 4. Trading strategies in your trade plan
- Step 5. Keep a trade log
- Trader tips

Trading and analysis
- Market makers vs. market takers
- Liquidity and immediacy
- Trading and analysis – fundamental analysis
- Fundamental trading methods
- Technical analysis
- Trend vs. anti-trend
- Support and resistance

Trade and risk management
- Risk aversion
- Misconceptions of taking losses
- The 2% rule
- Controlling risk
- Proper position size
- System-based vs. discretionary trading
- Setting realistic expectations

Technical analysis
- Chart types: candlestick, line, bar
- Understanding moving averages
- Trend and continuation patterns
- Technical patterns: reversals
- Support and resistance
- Fibonacci retracements and extensions
- Oscillators: MACD, RSI, stochastics
- Fundamental analysis vs technical analysis
Using fundamental analysis when evaluating trades

What is fundamental analysis?
Fundamental analysis vs technical analysis
Fundamental analysis – futures supply and demand
Fundamentals and equity index futures
Fundamentals and energy futures
Fundamentals and interest rate futures
Fundamentals and FX futures
Fundamentals and agricultural futures
Fundamentals and metal futures
Add'l language: FR
Add'l language: FR