

# Introduction to Cassandra (TTDS6776)

**Duration:** 24.00 hours (3 days)

**19.5 CPD Hours**

**Rating:** ★ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

The Cassandra (C\*) database is a massively scalable NoSQL database that provides high availability and fault tolerance, as well as linear scalability when adding new nodes to a cluster. It has many powerful capabilities, such as tunable and eventual consistency, that allow it to meet the needs of modern applications, but also introduce a new paradigm for data modeling that many organizations do not have the expertise to use in the best way. Introduction to Cassandra is a hands-on course designed to teach attendees the basics of how to create good data models with Cassandra. This technical course has a focus on the practical aspects of working with C\*, and introduces essential concepts needed to understand Cassandra, including enough coverage of internal architecture to make good decisions. It is hands-on, with labs that provide experience in core functionality. Students will also explore CQL (Cassandra Query Language), as well as some of the anti-patterns that lead to non-optimal C\* data models and be ready to work on production systems involving Cassandra.

## About This Course

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The Cassandra (C\*) database is a massively scalable NoSQL database that provides high availability and fault tolerance, as well as linear scalability when adding new nodes to a cluster. It has many powerful capabilities, such as tunable and eventual consistency, that allow it to meet the needs of modern applications, but also introduce a new paradigm for data modeling that many organizations do not have the expertise to use in the best way. Introduction to Cassandra is a hands-on course designed to teach attendees the basics of how to create good data models with Cassandra. This technical course has a focus on the practical aspects of working with C\*, and introduces essential concepts needed to understand Cassandra, including enough coverage of internal architecture to make good decisions. It is hands-on, with labs that provide experience in core functionality. Students will also explore CQL (Cassandra Query Language), as well as some of the anti-patterns' that lead to non-optimal C\* data models and be ready to work on production systems involving Cassandra.

# Learning Outcomes

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## **Upon successful completion of this course, participants will be able to:**

The goal of this course is to enable technical students new to Cassandra to begin working with Cassandra in an optimal manner. Throughout the course students will learn to:

Understand the Big Data needs that C\* addresses

Be familiar with the operation and structure of C\*

Be able to install and set up a C\* database

Use the C\* tools, including cqlsh, nodetool, and ccm (Cassandra Cluster Manager)

Be familiar with the C\* architecture, and how a C\* cluster is structured

Understand how data is distributed and replicated in a C\* cluster

Understand core C\* data modeling concepts, and use them to create well-structured data models

Be familiar with the C\* eventual consistency model and use it intelligently

Be familiar with consistency mechanisms such as read repair and hinted handoff

Understand and use CQL to create tables and query for data

Know and use the CQL data types (numerical, textual, uuid, etc.)

Be familiar with the various kinds of primary keys available (simple, compound, and composite primary keys)

Be familiar with the C\* write and read paths

Understand C\* deletion and compaction

## Additional Course Details

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Nexus Humans Introduction to Cassandra (TTDS6776) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Introduction to Cassandra (TTDS6776) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you. Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

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## **Q: What delivery options are available for Introduction to Cassandra (TTDS6776)?**

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
  - Traditional Instructor-Led Classroom Training (ILT)
  - On-site delivery at your offices anywhere in United Kingdom
  - Private dedicated courses customized for your team
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## **Q: How many CPD hours does this course provide?**

The 3-day Introduction to Cassandra (TTDS6776) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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## **Q: What is the duration of the Introduction to Cassandra (TTDS6776) training?**

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

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## **Q: Do you provide corporate training for Introduction to Cassandra (TTDS6776)?**

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to Cassandra (TTDS6776). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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## Q: Why choose Nexus Human for Introduction to Cassandra (TTDS6776)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

## Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to Cassandra (TTDS6776) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

# Nexus Human

## Professional Training & Development

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