



cloud
lunch & learn

Marathon

**Start your Cloud upskilling
journey with Azure Data
Engineering certification**

Sponsored by



Microsoft



T-FREX



Elkhan Yusubov
Principal Cloud Architect



Elkhan is a principal cloud architect and 14 times MSFT MCT with experience in cloud solutions, enterprise healthcare systems and healthcare data, and API standards (HL7 FHIR, EDI X12).

He is an active MCT, a Microsoft Tech Community Contributor and Azure SME (Architecture, DevOps, Security).

He is a frequent speaker at tech meetups and has volunteered for Give Camps, Azure Data Fest, SQL Saturday and Global Azure events.

The Cloud Marathoner:

www.thecloudmarathoner.com



Company Snapshot: T- Rex Is...

- ▶ **An Innovative NGIT Provider:** a leading solutions provider of innovative and modernizing Next Generation IT capabilities and enabling skills to the federal government
- ▶ **A first to market in migrating large federal mission applications and data** into a citizen-facing public cloud, giving the Company the capabilities and past performance to bid and win future NGIT opportunities in adjacent federal agencies
- ▶ **A Prime Contractor on 2020 Census,** one of the largest (scale) and most complex mission critical cloud/cyber/data analytics integration projects within the federal government



- ▶ **Integrated 52 mission-critical systems comprised of 200+ applications** operating in a hybrid hyper-converged data center and Amazon Web Service ("AWS") public facing GovCloud protected by a world class active cyber defense (ACD) solution. Also includes a VDI-based Office 365 solution supporting 40k+ users and MS Azure AD managing 350k+ mobile users

Achievements & Partnerships



Silver Data Analytics
Silver Application Development
Silver Data Platform

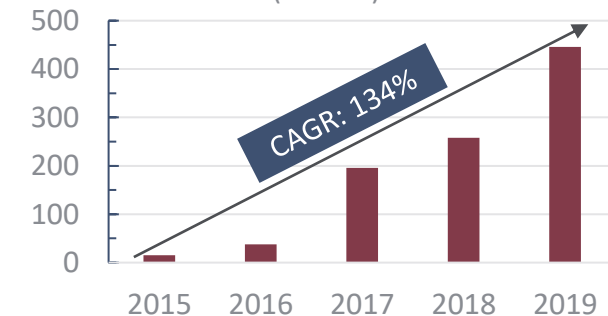


Company Info

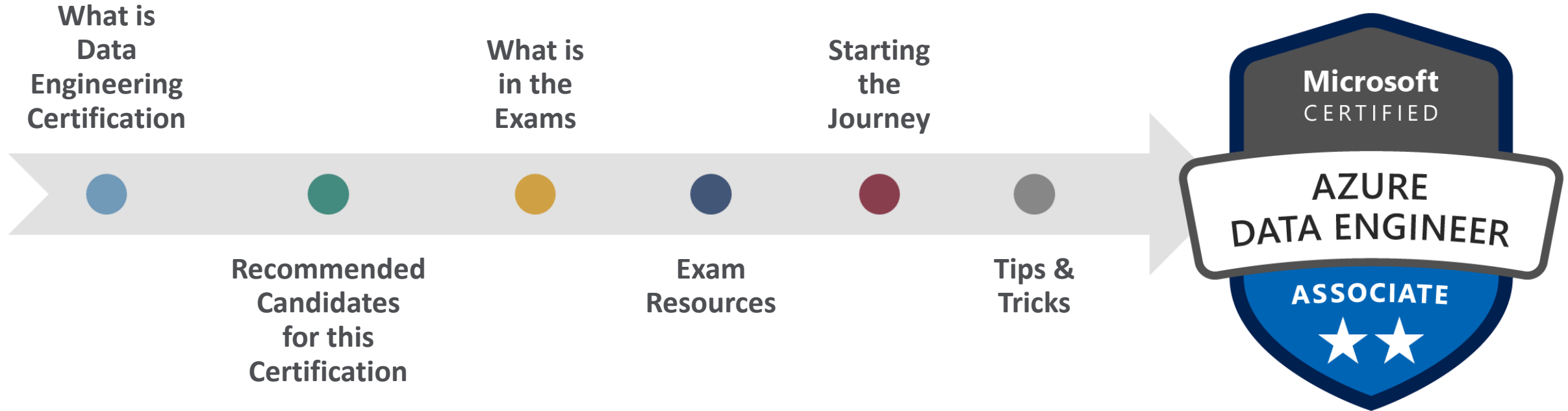
- **Established:** 1999
 - **Legal Structure:** LLC
 - **Headquarters:** Greenbelt, MD
 - **8(a)/HUBZone & SDVOSB Joint Ventures:** Ability to deliver services as a small business concern
 - **Prime/Sub (09/20):** 98.5% Prime
 - **Backlog (09/20):** \$341.6MM
- Prime Vehicles/BPAs:**
- GSA Schedule 70
 - USDA Cloud COE BPA
 - Dept of Commerce ESF

Financial Summary

T-Rex Annual Revenue (USD M)



What we will cover



What we will not cover



Exam questions



Proprietary materials from exam or MOC



Exam rumors



Preview features

Overview of Data roles



Data Engineer



Business Analyst



Data Analyst



Data Scientist



Database
Administrator

What is Azure Data Engineering certification ?

What is Data Engineer role?



What are the levels of Data Engineering certification?



Who should start with DP-900?

Data Engineer – responsibilities



Workload
environments



Tools



Data pipelines



Data
management



Security

Modern data types



STRUCTURED DATA



UNSTRUCTURED DATA



SEMI-STRUCTURED DATA

Recommended candidates for the certification ?



PROVISIONING DATA
STORAGE SERVICES



INGESTING STREAMING
AND BATCH DATA AND
TRANSFORMING DATA



IMPLEMENTING SECURITY
REQUIREMENTS AND DATA
RETENTION POLICIES



IDENTIFYING
PERFORMANCE
BOTTLENECKS

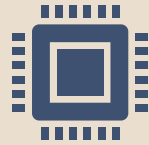


ACCESSING EXTERNAL
DATA SOURCES

What is in the exam DP-200?



Implement data storage solutions
(40-45%)



Manage and develop data
processing (25-30%)

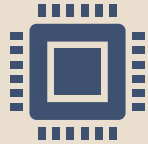


Monitor and optimize data solutions
(30-35%)

What is in the exam DP-201?



Design Azure data storage solutions
(40-45%)



Design data processing solutions
(25-30%)



Design for data security and
compliance (25-30%)

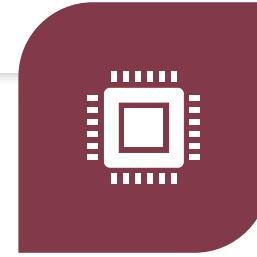
Exam Resources



OFFICIAL EXAM WEBSITE
AND [EXAM OBJECTIVES](#)



MICROSOFT LEARN MODULES
FOR [AZURE DATA ENGINEER](#)



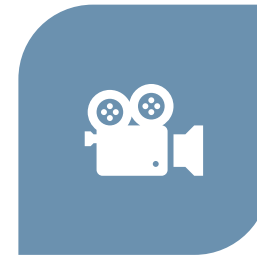
MICROSOFT DOCUMENTATION
RESOURCES: [ELYUSUBOV/DP-200-REFERENCES](#)



MICROSOFT LEARN
LABS: [ELYUSUBOV/DP-200-REFERENCES](#)



A CLOUD GURU RESOURCE
FOR [DP-200](#) EXAM

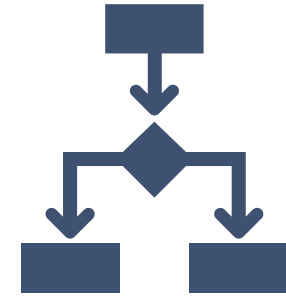


PLURALSIGHT VIDEO TRAINING
ON AZURE [DP-200](#)

I'm in,
how to
start the
journey?



Measuring your skills with
Pluralsight IQ



Register for the exam(s)

Azure Data Engineer Updates

The journey to Microsoft Certified: Azure Data Engineer Associate

Get started at
aka.ms/AzureCerts_DataEngineer



Start here

Decide if this is the right certification for you

Upskill with recommended training and experience

Pass required exams to earn your certification

Continue to grow

This certification is a good fit if your responsibilities include:

- Building and maintaining secure and compliant data processing pipelines by using different tools and techniques.
- Using various Azure data services and languages to store and produce cleansed and enhanced datasets for analysis.

OR

If you already have or were working toward this certification:

- MCSA: Data Engineering with Azure

Brand new? First, master the basics.

Skills outline guides

- [DP-203](#)



Self-paced online learning

[Microsoft Learn](#)



Instructor-led training

Course DP-203T00:
Designing and Implementing a
Microsoft Azure AI
Solution (coming soon)

Additional resources

- [Microsoft Docs](#)
- [Azure Architecture Center](#)

Exam DP-203

[Data Engineering on
Microsoft Azure](#)



Microsoft Certified:
Azure Data Engineer Associate

Azure Data Engineers integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solutions.

Explore these resources next

Self-paced online learning

- [Migrate data to Azure](#)

Instructor-led training

- [Course DP-050T00: Migrate SQL workloads to Azure](#)
- [Course DP-060T00: Migrate NoSQL workloads to Azure Cosmos DB](#)
- [Course DP-070T00: Migrate Open Source Data Workloads to Azure](#)

Build expertise in Azure

Continue learning [View all >](#)



Implementing a Relational Database in Microsoft Azure SQL Database
Reza Salehi · Intermediate
19m of 2h 54m



Developing AI Models in Microsoft Azure
Sahil Malik · Intermediate
1h 7m of 1h 31m



Incident Response and Remediation in Microsoft Azure
Ammar Hasayen · Advanced
5m of 2h 11m



Securing the Application Lifecycle in Microsoft Azure
Reza Salehi · Advanced
1m of 1h 25m



Choosing the Appropriate Microsoft Azure Services and Features
James Bannan · Beginner
30m of 2h 0m



Designing Machine Learning Solutions on Microsoft Azure
David Tucker · Intermediate
1m of 1h 42m

Role IQ [View all >](#)



Microsoft Azure Administrator



Microsoft Azure Developer

Microsoft A



Building Data Pipelines in Microsoft Azure

Add to channel

Give Feedback

In a world increasingly dominated by data, it's more important than ever for data engineers and scientists to build data pipeline solutions that can support both traditional data warehouses and today's machine learning and AI solutions.

This path covers everything you need to know about building reliable, fast, and cost-effective data pipelines in Microsoft Azure so

Already know some Building Data Pipelines in Microsoft Azure? Find out where to start. [?](#)

Expert
92nd percentile

What's your Building Data Pipelines in IQ?

Skill IQs

Retake available



Building Data Storage Solutions with Microsoft...

PROFICIENT 150
50th percentile

VERIFIED 8.29.2020

Retake available



Developing Microsoft Azure AI Solutions

EXPERT 212
85th percentile

VERIFIED 8.16.2020

Retake available



Managing Security Operations in Microsoft...

PROFICIENT 168
62nd percentile

VERIFIED 7.11.2020

Retake available



Securing Data and Applications in Microsoft...

EXPERT 210
84th percentile

VERIFIED 7.11.2020

Retake available



Configuring Identity and Access in Microsoft Azure

EXPERT 232
92nd percentile

VERIFIED 7.11.2020

Retake available



Enabling Platform Protection in Microsoft...

EXPERT 234
92nd percentile

VERIFIED 7.5.2020



Add more skills to your profile

Tips & Tricks: Getting ready for the exam day

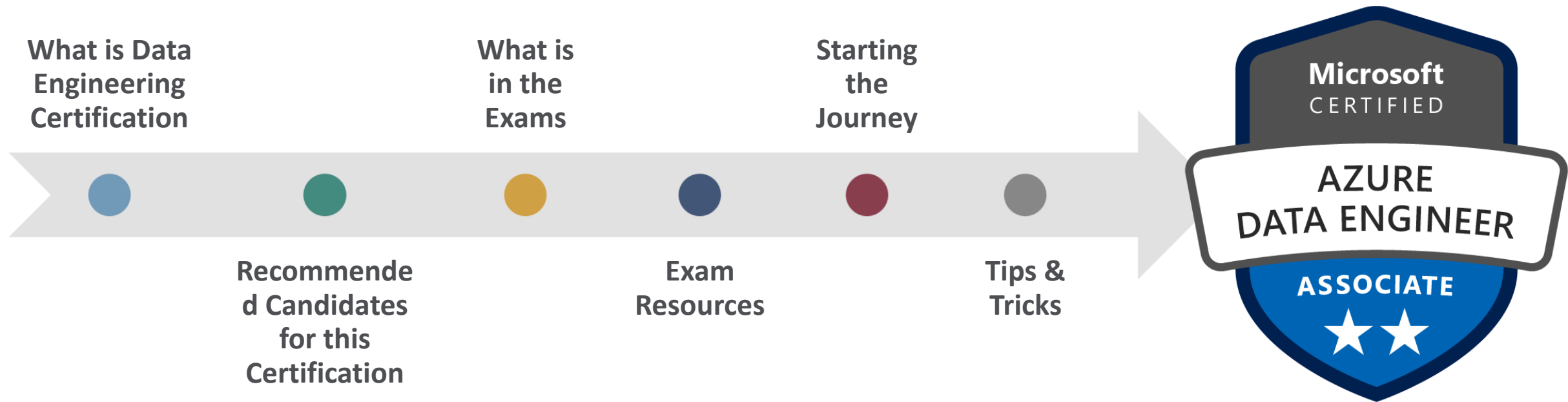
- Proctored exam
- Exam room environment
- Getting laptop ready
- Running tests
- Installing updates, think twice?
- Plan to contact Pearson Vue

Let's test what
we learned

Let's Kahoot together!!



What we have covered



T-FREX

Q & A



Elkhan Yusubov
Principal Cloud Architect
T-Rex Solutions

 @ElYusubov

 ElkhanYusubov

 ElYusubov



How to up-skill with Azure Data Engineering certification?

All you need to know to get ready for your upskilling journey



cloud
lunch & learn

Marathon

Thank you!

Share your Love with the speaker and team on social, using the hashtag *#cllmarathon* and *@CloudLunchLearn*

And follow us 



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In collaboration with

