



AWS Ramp-Up Guide: Manufacturing: Data and Machine Learning

For developers, cloud architects, tech leaders, and business decision makers

These learning resources have been curated specifically for the Manufacturing industry, helping a variety of stakeholder know how to get from systems and machine data to business applications in the real-world. Topics include getting systems and machine data into AWS, data pipelines, machine learning fundamentals, and processing and analyzing data using Amazon Kinesis, AWS Glue, Amazon Athena, and Amazon Quicksight analytics. If you want to track your progress, use our Manufacturing Learning Plan.

[Share your opinion](#) of this Ramp-Up Guide!

Learn the Fundamentals of the AWS Cloud

| Learning Resource | Type |
|-------------------------------------|-------------------------------|
| AWS Ramp-Up Guide: Cloud Essentials | Ramp-Up Guide |

Getting Started

| Learning Resource | Duration (hrs) | Type |
|--|----------------|----------------------------------|
| Introduction to Machine Learning: Art of the Possible | 0.5 | Digital Training |
| Connecting Systems and Machines to AWS for Industrial Manufacturing | 0.8 | Digital Training |
| Introduction to Amazon Kinesis Streams | 0.2 | Digital Training |
| Introduction to Amazon Kinesis Analytics | 0.1 | Digital Training |
| Introduction to Amazon Athena | 0.2 | Digital Training |
| Introduction to Amazon Quicksight | 0.3 | Digital Training |
| Getting Started with Amazon EMR | 1.0 | Digital Training |
| Getting Started with AWS Glue | 1.0 | Digital Training |
| Machine Learning Essentials for Business and Technical Decision Makers | 1.5 | Digital Training |

Deeper Dive

| Learning Resource | Duration (hrs) | Type |
|--|----------------|----------------------------------|
| Machine Learning Security | 2.0 | Digital Training |
| Developing Machine Learning Applications | 4.0 | Digital Training |
| Amazon SageMaker: Build an Object Detection Model Using Images Labeled with Ground Truth | 1.2 | Digital Training |
| Math for Machine Learning | 8.0 | Digital Training |



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Additional Resources

| Learning Resource | Type |
|---|--|
| Solutions Library for Manufacturing & Industrial | Webpage |
| AWS for Industrial | Webpage |
| Manufacturing: Simplifying digital transformation | Webpage |
| Security Best Practices for Manufacturing OT | Whitepaper |
| Hannover Messe: Discover a Modern Industrial Data Strategy with AWS | Blog |
| Getting Started with the Industrial Data Platform on AWS | Blog |
| Demand Forecasting | Whitepaper |
| AWS Architecture Center (for Manufacturing) | Reference Architecture |
| AWS for Industrial Video Playlist | Video |



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