LIGHTHOUSE LABS | AmpUP
by Next Generation Manufacturing Canada

INTRODUCTION TO DATA ANALYTICS
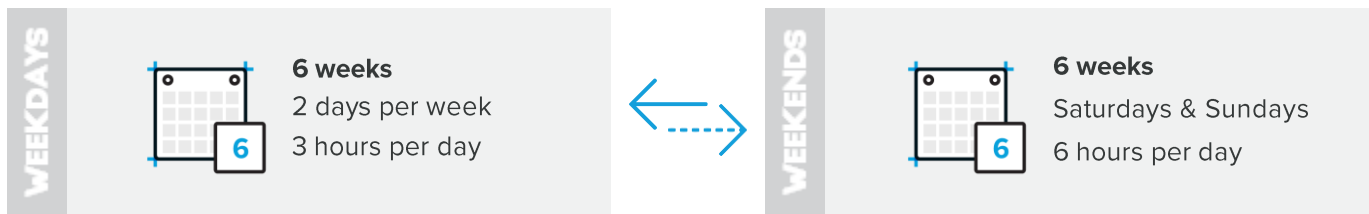
Curriculum Package

Learn Data Part-Time With Lighthouse Labs

Data is driving the future Canadian manufacturing. Every product, process, and interaction creates data. But, what can be done with all of this data? Learn to collect, communicate, and draw insights from data to create new business solutions and ways forward.

Throughout this part-time course, students will learn to extract the greatest value from their companies' data, using it to create actionable insights that drive decision-making processes. This course is built by industry professionals, and designed for students at any stage of their career who want to develop their ability to leverage data. The hands-on, accelerated learning curriculum will equip you with the skills you need to excel in your industry.

Choose Your Format

WEEKDAYS

6 weeks
2 days per week
3 hours per day

6

WEEKENDS

6 weeks
Saturdays & Sundays
6 hours per day

6

*Check the Lighthouse Labs website to see full details.

This course will equip you to:

- apply data literacy and analysis to your own data sets
- use basic descriptive statistics in practical applications
- validate and correct basic errors in your data sets
- critically interpret quantitative and qualitative results from your data
- use data visualizations and storytelling tools to efectively present your data insights
- draw a line from your data insights to actionable business decisions
- expand your tech skill set to enhance your career
- benefit from our hands-on content, designed by data professionals
- receive hands-on mentorship from professional instructors in a small group setting
- network with other tech-adjacent professionals with similar interests

Our approach of combining well-established industry processes for data analytics with the Lighthouse Labs hands-on instruction and mentorship methods will allow you to learn from professionals, apply your learning to your own situation and experience level, and ensure you expand your data related skills in a relevant and instantly applicable way.

Data Is For Everyone

Make Data-Driven Decisions

Your business gathers data about your product, customers, or systems. You need to leverage that data for better business strategies, but you don't know how to separate what's important and what's background noise.

Professional Development

Whether you're an entry-level employee in need of solid foundations, or a seasoned professional looking to future-proof your skills, this program will lend a data-driven competitive advantage to your skillset.

Bring Value To The Boardroom

No matter your industry, you'll learn how to ask the right questions and present your findings in compelling ways, so you can share your data insights with colleagues and stakeholders.

Making Your Data Work For You

These five steps of data analysis will equip you to build data-driven strategies for success. No matter the business questions you have, we'll show you how to play detective with your data to find the answers you need.

STEP 1
Ask The Right Questions
Define what questions you need your data to answer, and set measurable goals.

STEP 2
Collect The Right Data
Source, collect, and combine the data sets you need to answer your questions.

STEP 3
Clean Your Data
Sift through your data to remove inconsistencies and leave only the clearest results.

STEP 4
Analyze Your Data
Organize and summarize your data to find patterns and extract insights.

STEP 5
Visualize Your Results
Choose the best methods to create a compelling data story and share your results with others.

Digging Into Your Data

MODULE 1
Getting to Know Data

- Data 101
- The Data Analysis Process
- The diferent types of Data Analysis
- Introduction to Statistics

MODULE 2
Data Collection & Organization

- Asking the right questions
- Identifying data sources
- Collect and combining various sets of data
- Cleaning data for proper analysis

MODULE 3
Analyzing Data

- Performing diferent types analysis on various data sets in Excel
- Using Excel to extract insights from your data
- Identifying patterns and relationships in data

MODULE 4
Data Interpretation & Visualization

- The importance of data visualization
- How to tell a story with your data
- Creating dashboards in Tableau

MODULE 5
Capstone Project

Put your new skills to the test with this final project, where you will collect, analyze, and present **your own set of data insights** to your fellow classmates.

POST-COURSE RESOURCES

We'll send you off with custom-built resources so you can continue your learning and practice your new data analysis skills on the job.

READY TO ANALYZE?

AMPUP
Promotion

$850
(Original Price: $2,000)

Use discount code "**ampup**" upon check-out.
NGen and Lighthouse Labs will cover the rest of the cost.

Apply Now

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