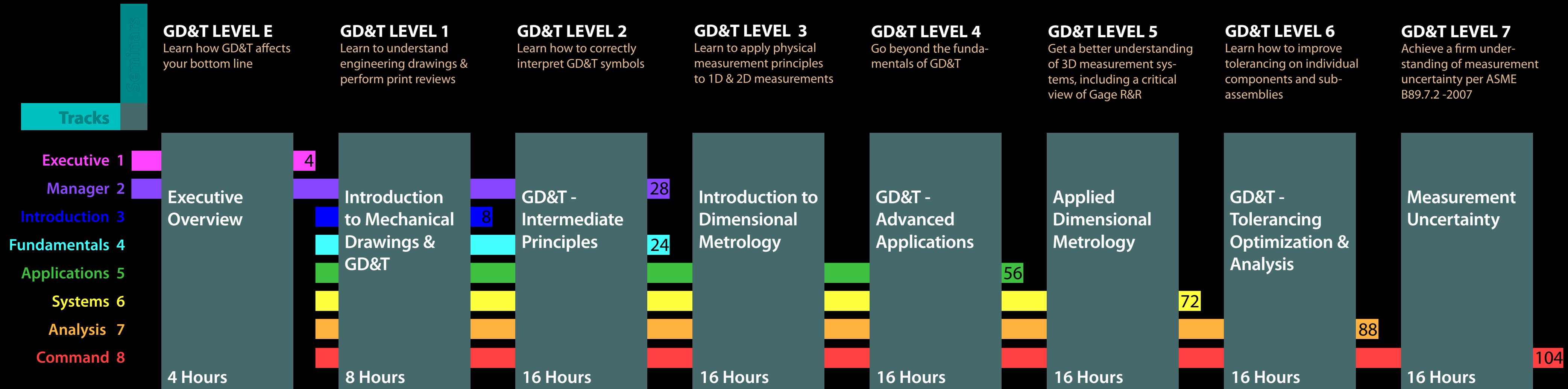


# Eight tracks to GD&T expertise

## Overview



### Job Path / Responsibility

- 1 Directors, VPs, GMs
- 2 Managers
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- 8 Engineers, statisticians



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Achieve a firm understanding of measurement uncertainty per ASME B89.7.2 -2007

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	Introduction to Mechanical Drawings & GD&T	GD&T - Intermediate Principles	Introduction to Dimensional Metrology	GD&T - Advanced Applications	Applied Dimensional Metrology	GD&T - Tolerancing Optimization & Analysis	Measurement Uncertainty	
	8	28						
		24			56			
						72		
							88	
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	8 Hours	16 Hours	16 Hours	16 Hours	16 Hours	16 Hours	16 Hours	16 Hours

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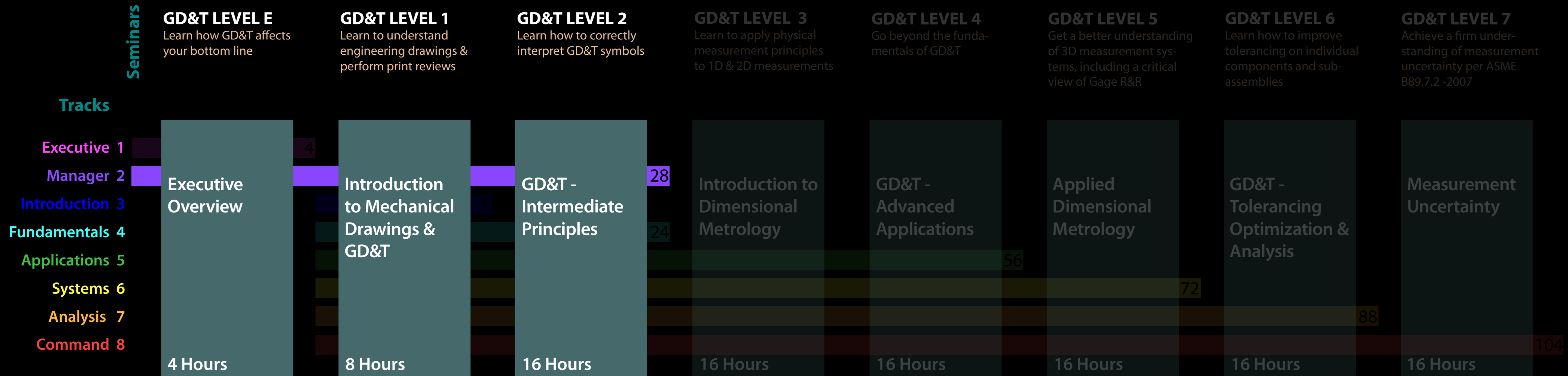


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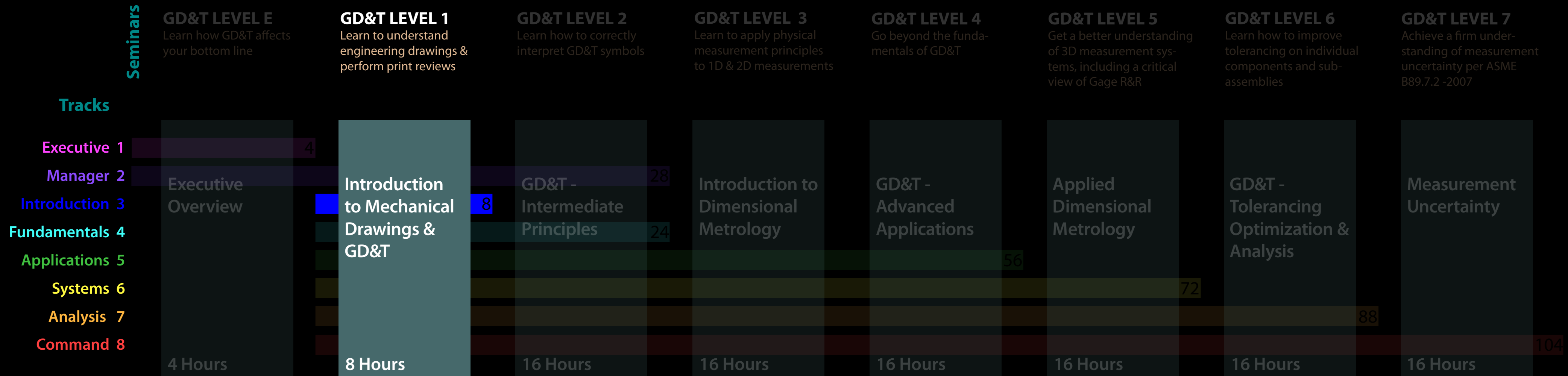


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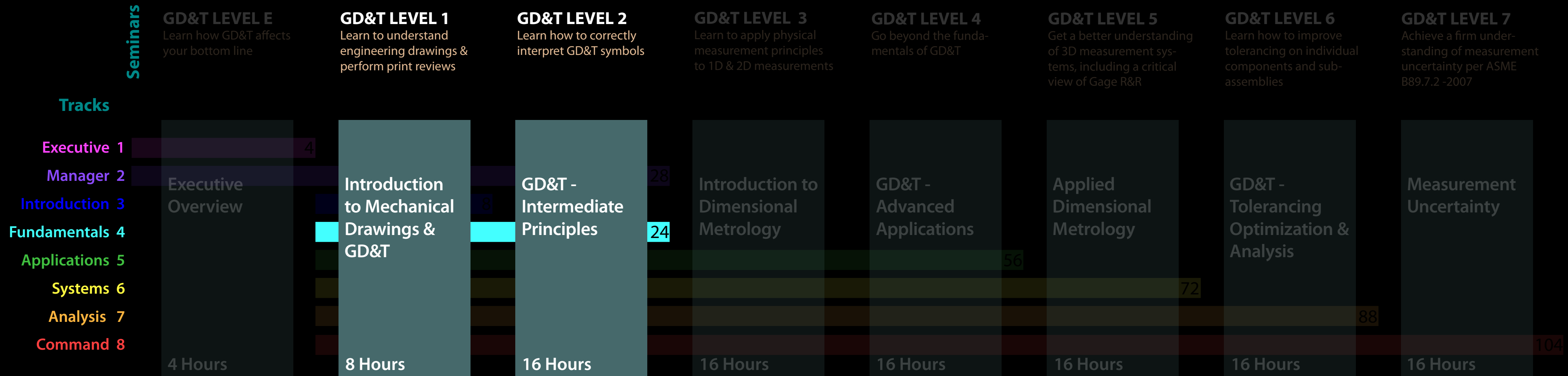


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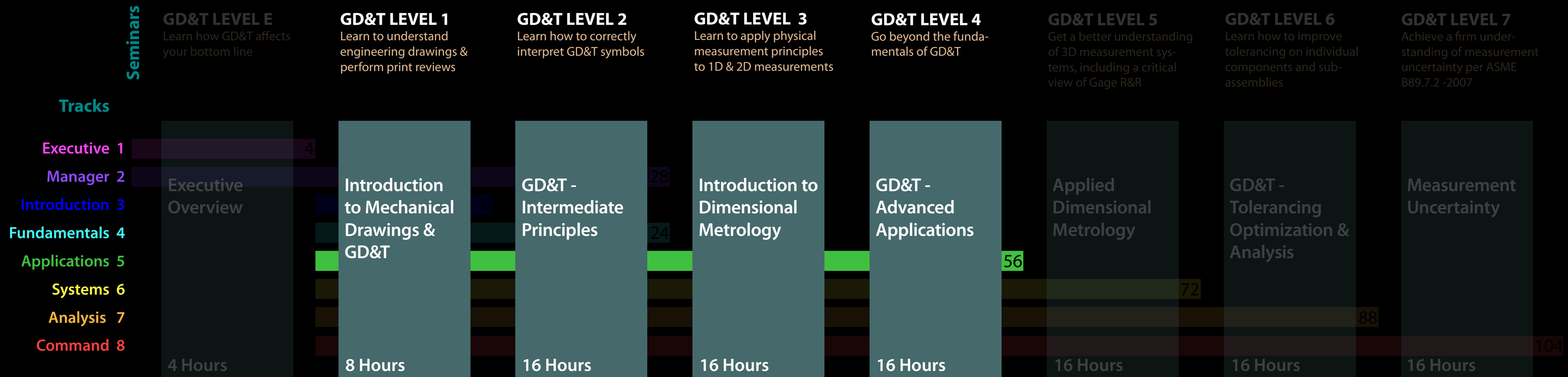


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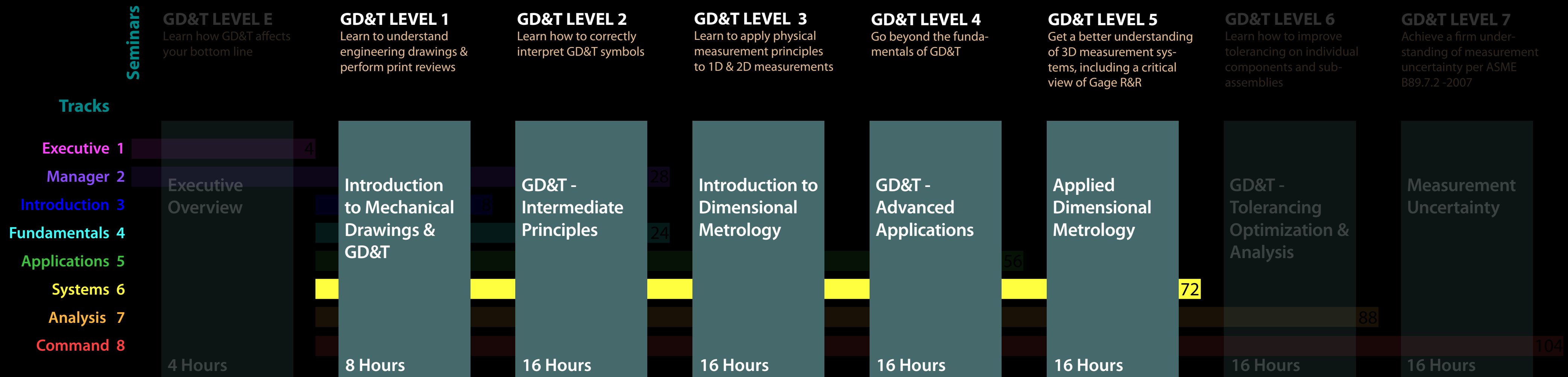


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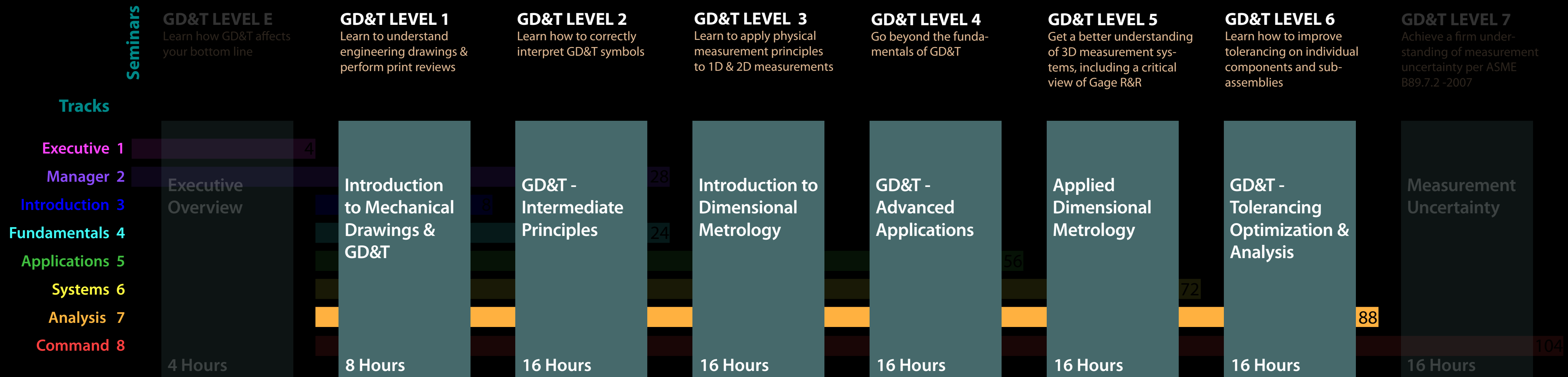


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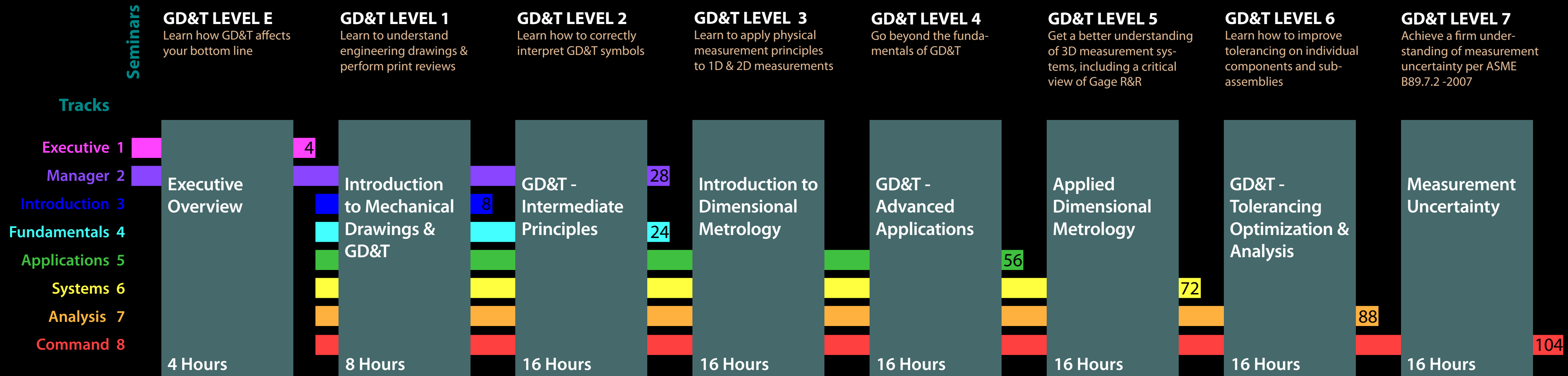


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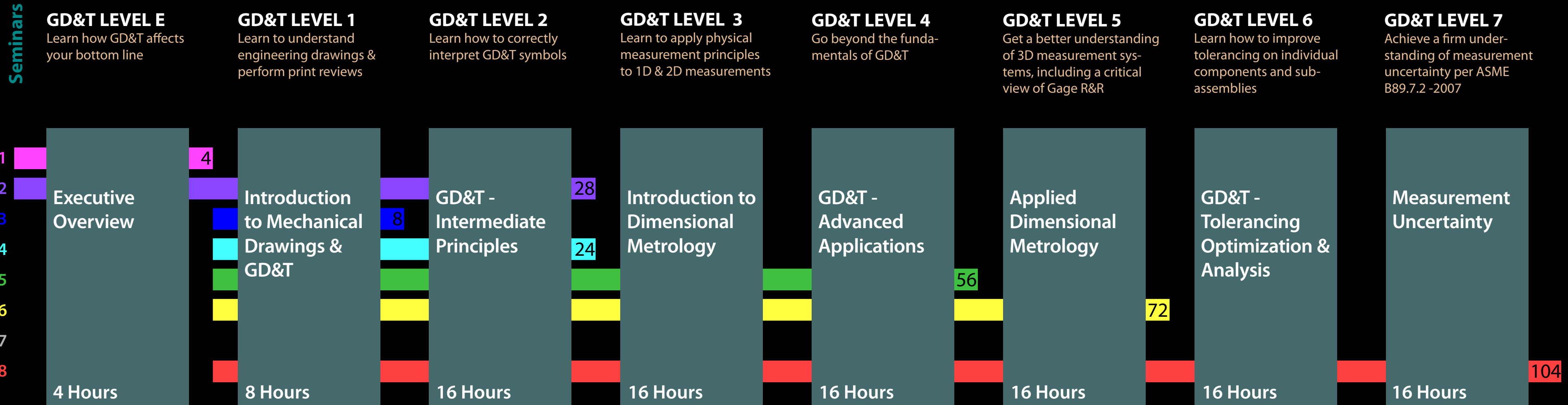


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## Purchasing & sourcing—7 tracks



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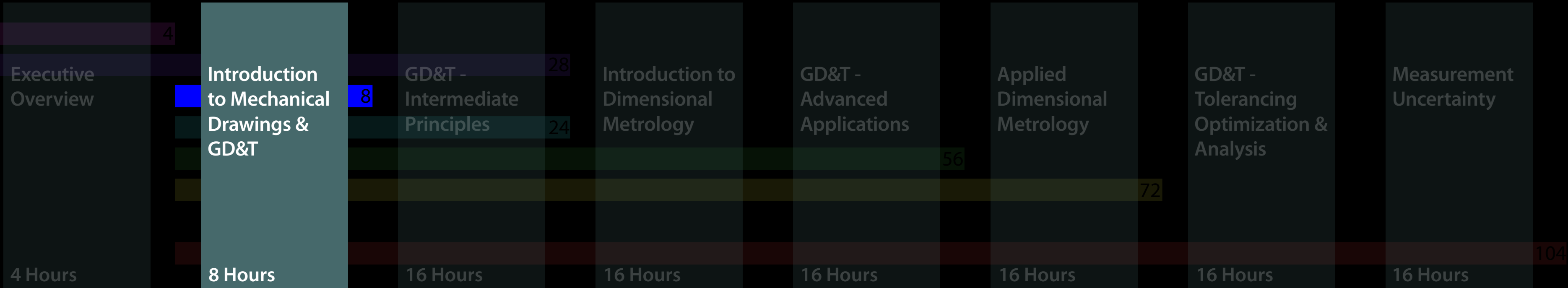
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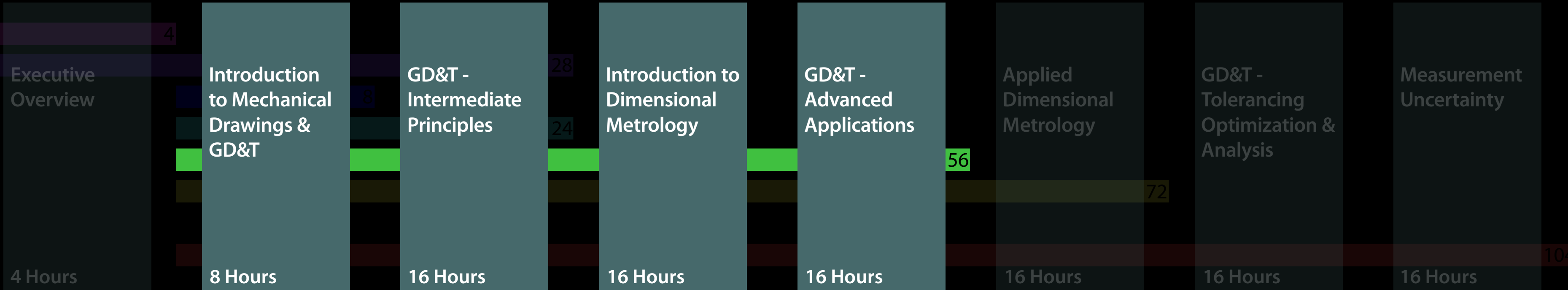
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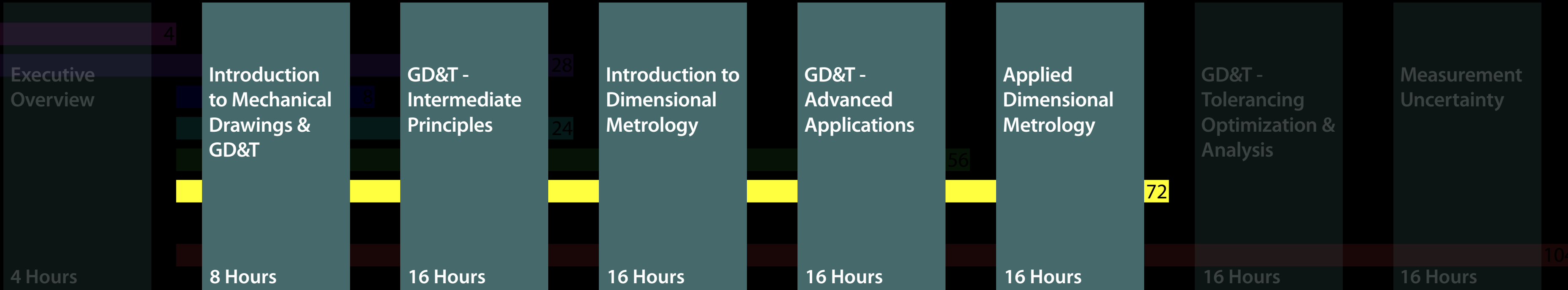
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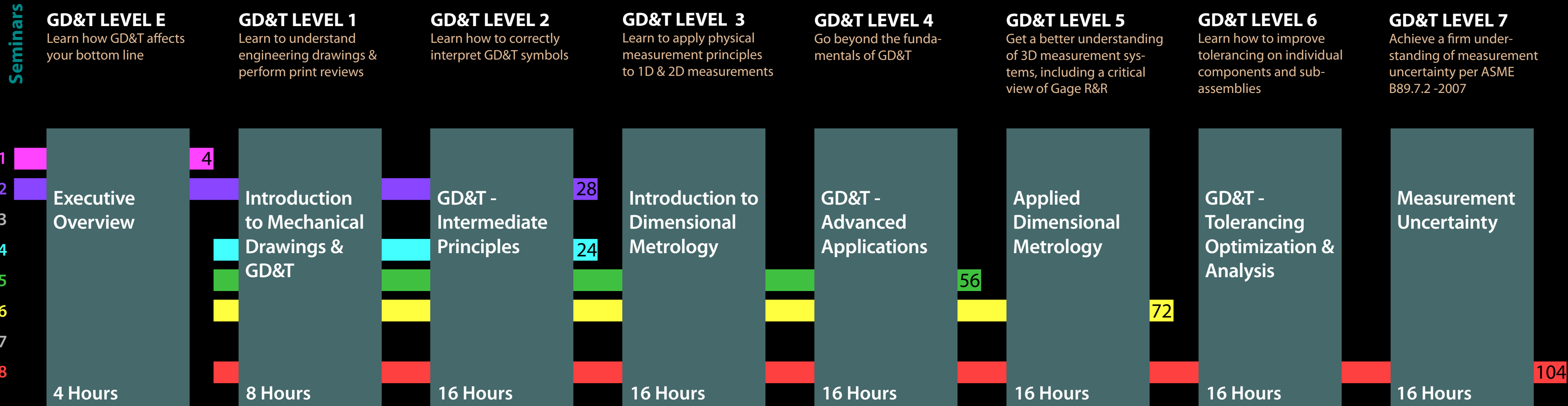


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# Eight tracks to GD&T expertise

## Regulatory & sales—6 tracks



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- 1 Directors, VPs, GMs
- 2 Managers
- 3
- 4 Regulatory personnel, non-mechanical sales engineers
- 5 Mechanical sales engineers
- 6 Estimators
- 7
- 8 Applications engineers



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 Edina, MN 55435 U.S.A.

# Eight tracks to GD&T expertise

## Regulatory & sales—6 tracks

Seminars

### GD&T LEVEL E

Learn how GD&T affects your bottom line

### GD&T LEVEL 1

Learn to understand engineering drawings & perform print reviews

### GD&T LEVEL 2

Learn how to correctly interpret GD&T symbols

### GD&T LEVEL 3

Learn to apply physical measurement principles to 1D & 2D measurements

### GD&T LEVEL 4

Go beyond the fundamentals of GD&T

### GD&T LEVEL 5

Get a better understanding of 3D measurement systems, including a critical view of Gage R&R

### GD&T LEVEL 6

Learn how to improve tolerancing on individual components and sub-assemblies

### GD&T LEVEL 7

Achieve a firm understanding of measurement uncertainty per ASME B89.7.2 -2007

### Tracks

Executive 1	4
Manager 2	Executive Overview
Introduction 3	
Fundamentals 4	8 Hours
Applications 5	
Systems 6	16 Hours
Analysis 7	
Command 8	104
	4 Hours

Executive 1	4								
Manager 2	Executive Overview								
Introduction 3									
Fundamentals 4	8 Hours	Introduction to Mechanical Drawings & GD&T	GD&T - Intermediate Principles	Introduction to Dimensional Metrology	GD&T - Advanced Applications	Applied Dimensional Metrology	GD&T - Tolerancing Optimization & Analysis	Measurement Uncertainty	
Applications 5									
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	4 Hours	8 Hours	16 Hours	16 Hours	16 Hours	16 Hours	16 Hours	16 Hours	16 Hours

### Job Path / Responsibility

- 1 Directors, VPs, GMs
- 2 Managers
- 3
- 4 Regulatory personnel, non-mechanical sales engineers
- 5 Mechanical sales engineers
- 6 Estimators
- 7
- 8 Applications engineers



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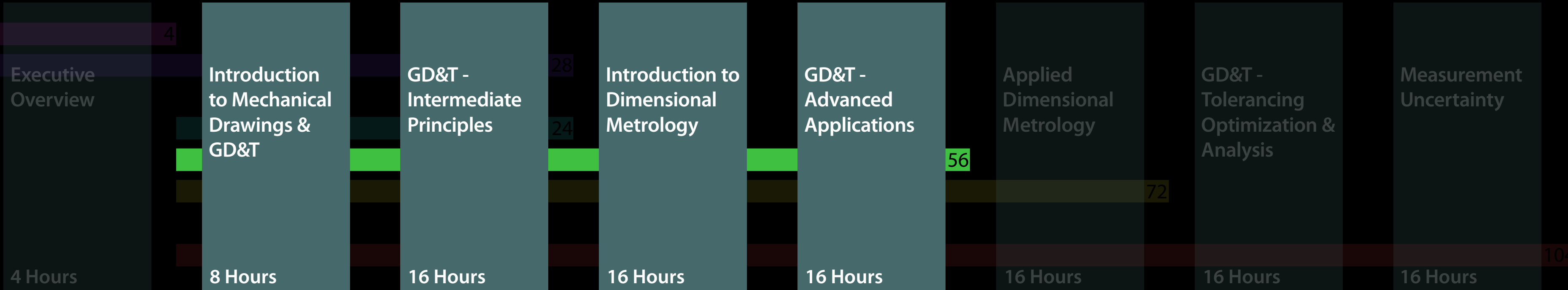
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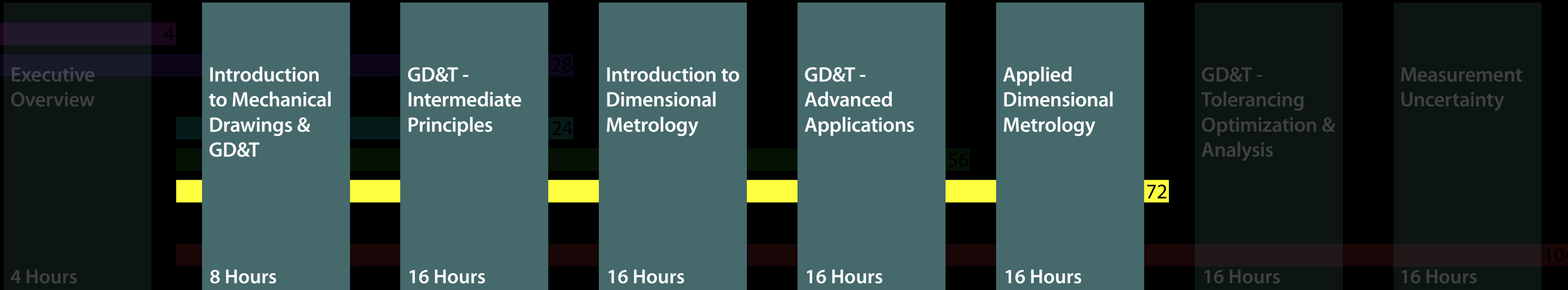
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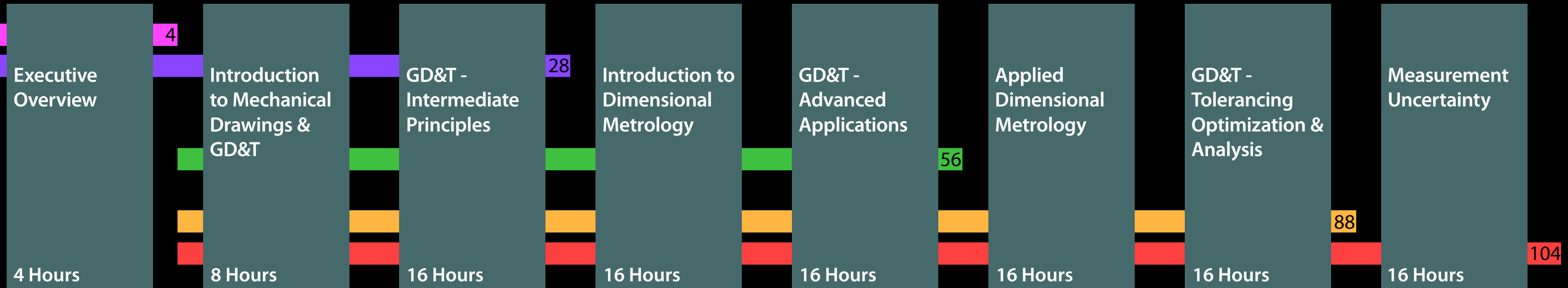
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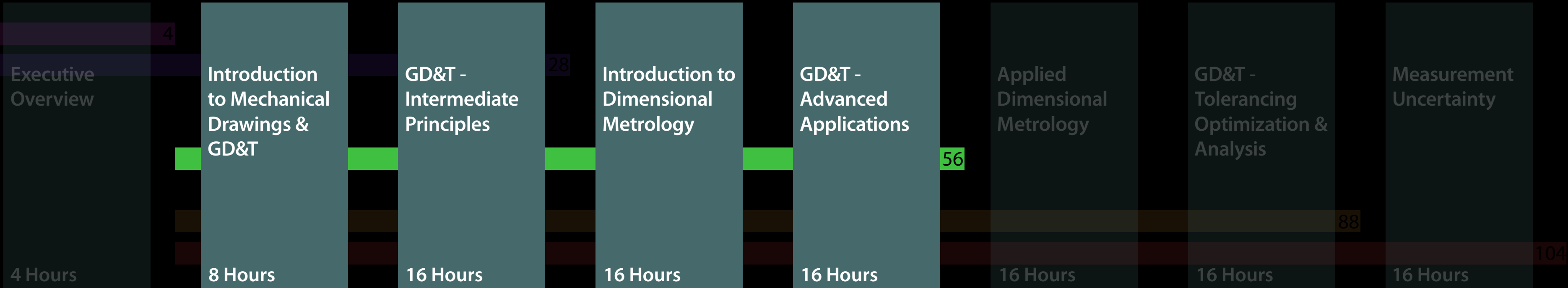
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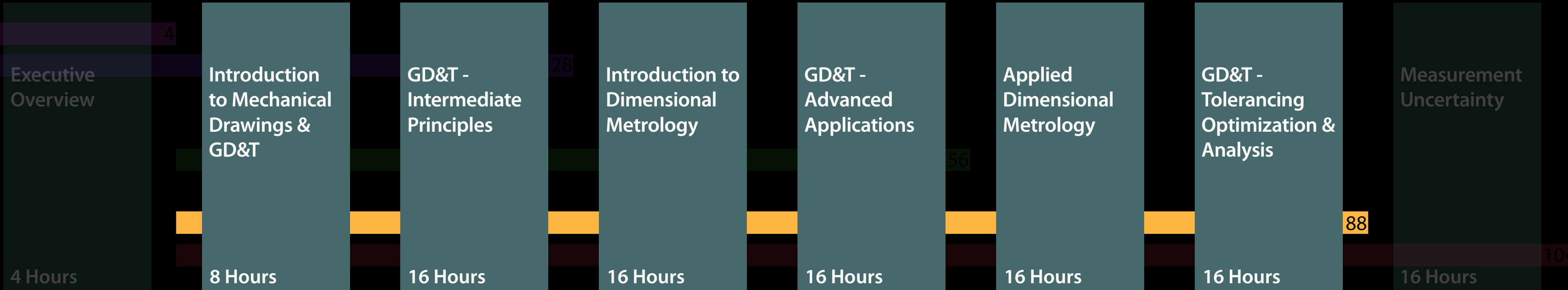
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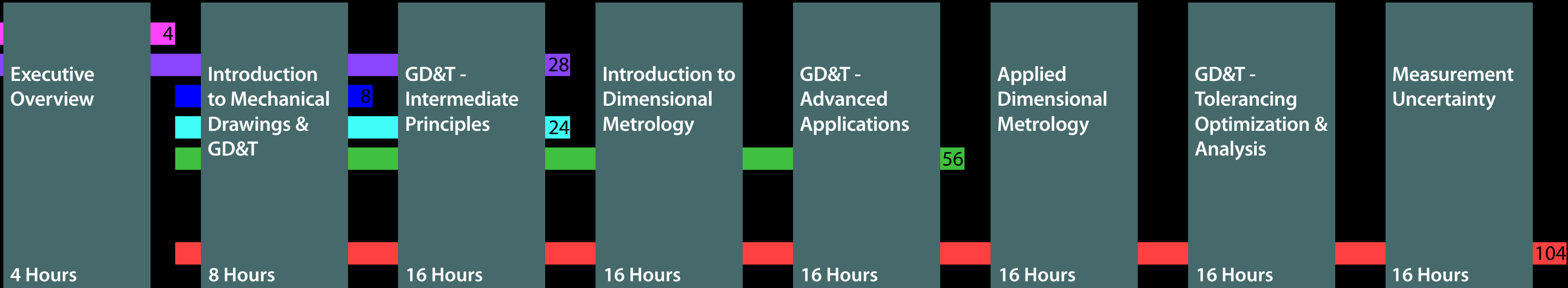
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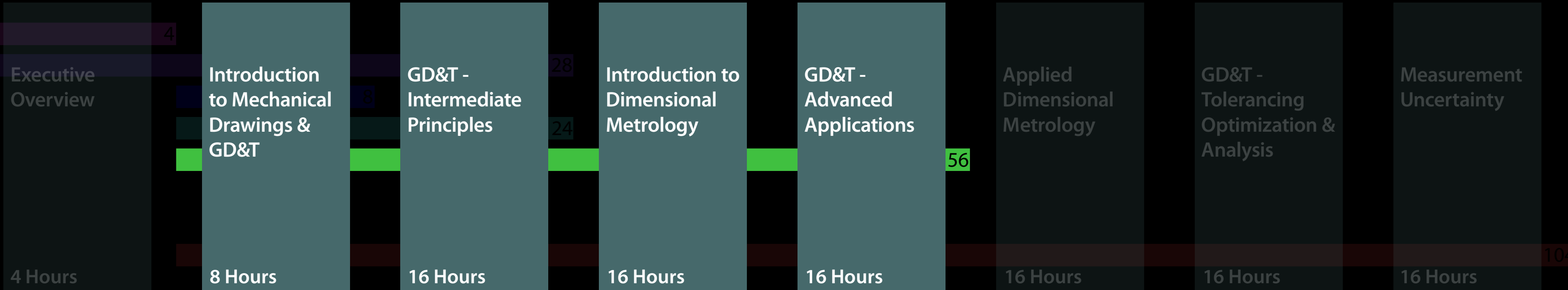
Fundamentals 4

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### Job Path / Responsibility

- 1 Directors, VPs, GMs
- 2 Managers
- 3 Mechanical assemblers
- 4 Machine operators
- 5 Process technicians
- 6
- 7
- 8 Process/manufacturing engineers



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# Eight tracks to GD&T expertise

## Manufacturing—6 tracks

Seminars

### GD&T LEVEL E

Learn how GD&T affects your bottom line

### GD&T LEVEL 1

Learn to understand engineering drawings & perform print reviews

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### GD&T LEVEL 7

Achieve a firm understanding of measurement uncertainty per ASME B89.7.2 -2007

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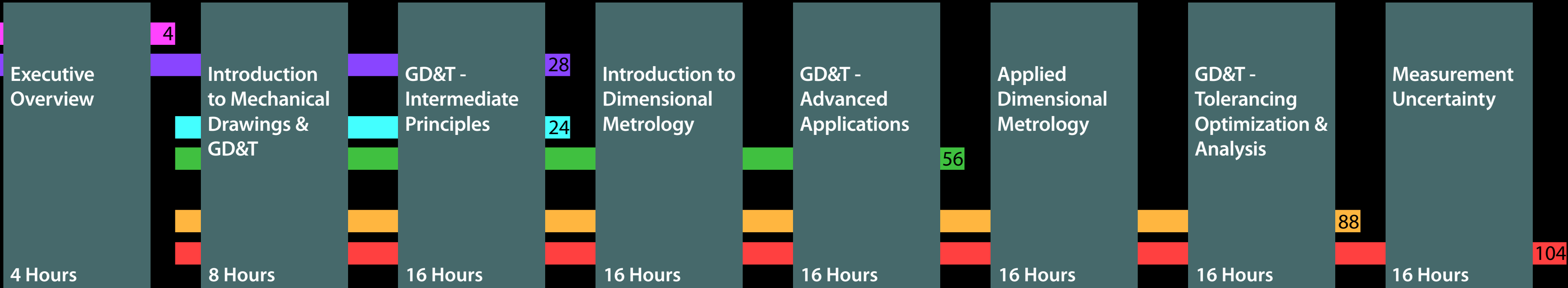
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	4 Hours

	Introduction to Mechanical Drawings & GD&T	GD&T - Intermediate Principles	Introduction to Dimensional Metrology	GD&T - Advanced Applications	Applied Dimensional Metrology	GD&T - Tolerancing Optimization & Analysis	Measurement Uncertainty	
	8 Hours	16 Hours	16 Hours	16 Hours	16 Hours	16 Hours	16 Hours	16 Hours
		28						
		24			56			
						88		
								104

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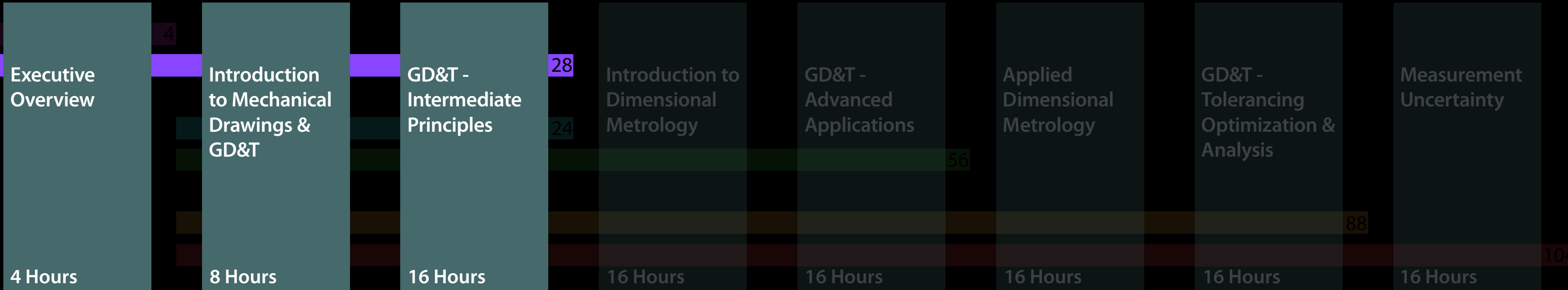
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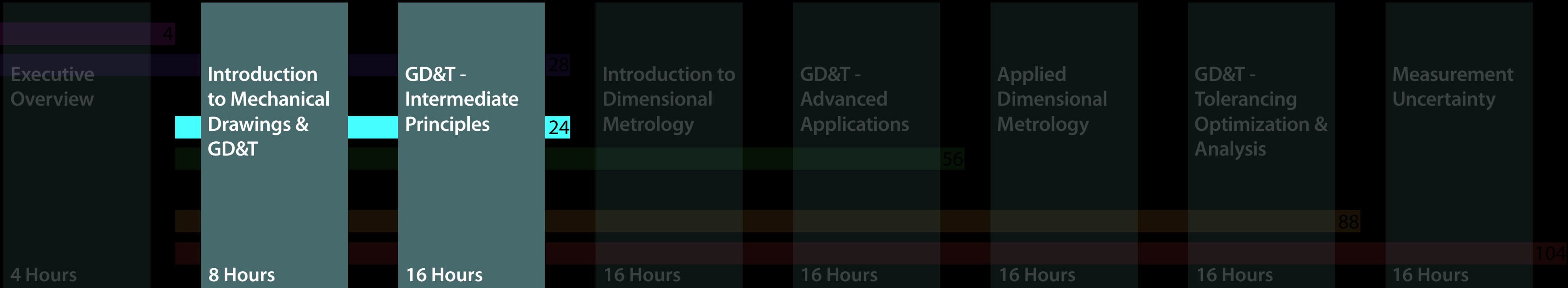
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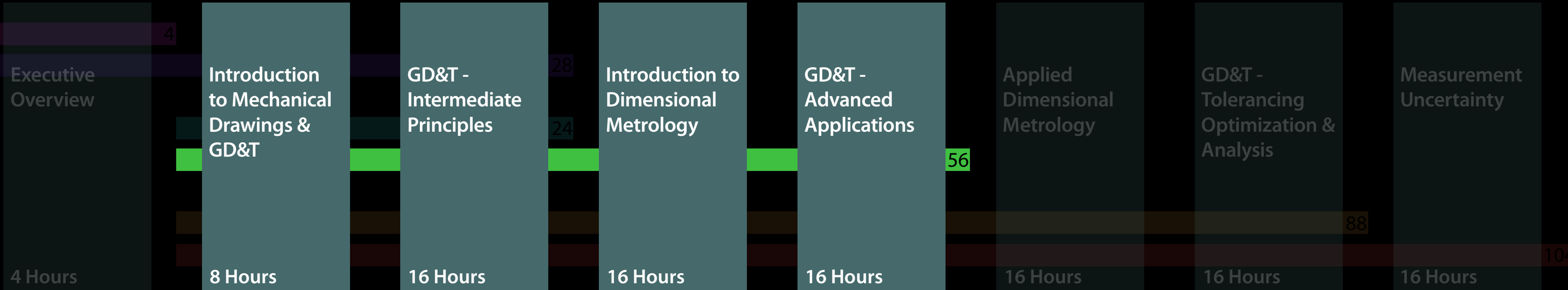
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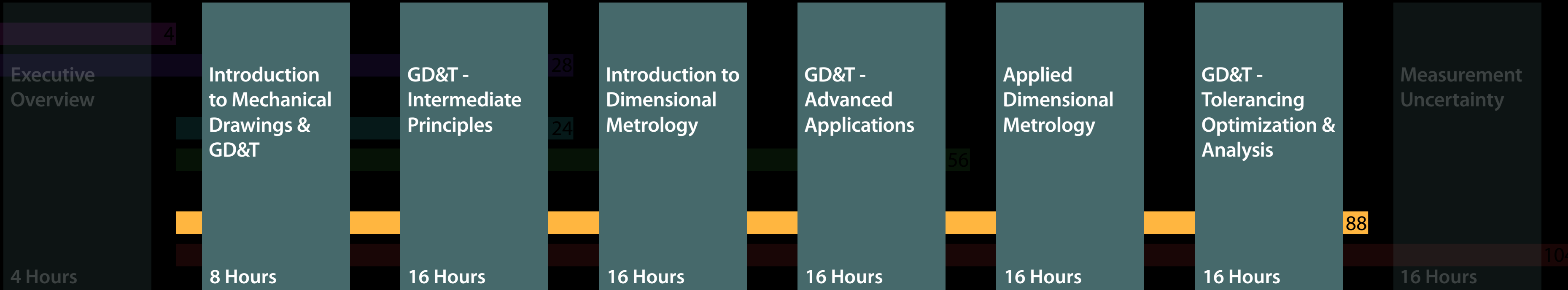
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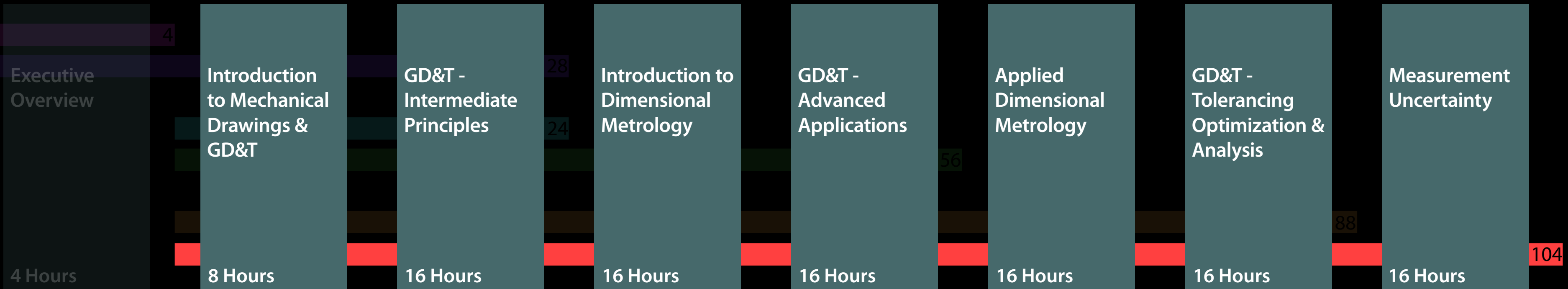
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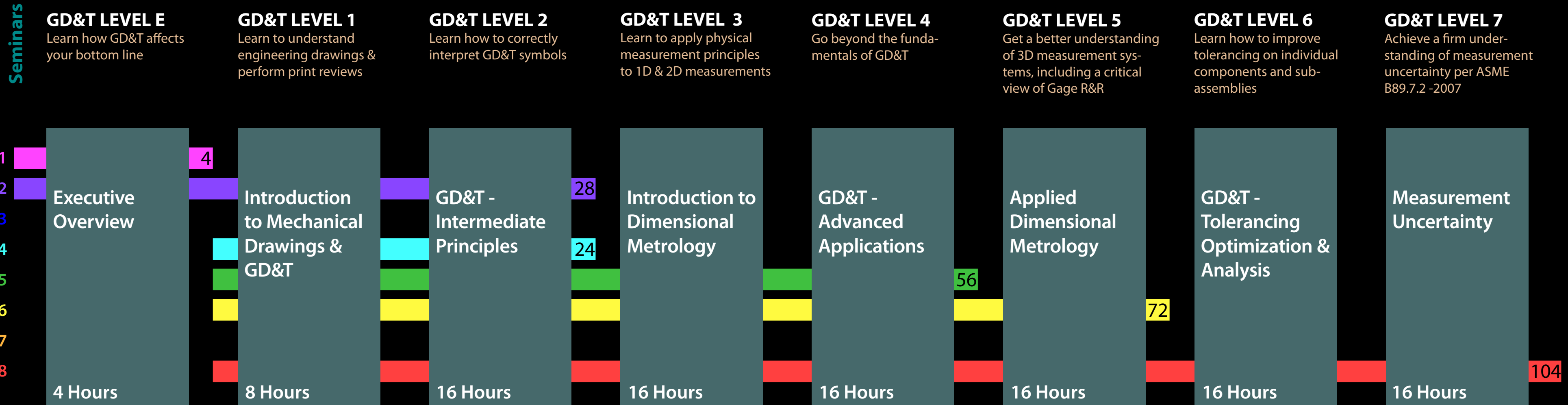


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# Eight tracks to GD&T expertise

## Quality & measurement—6 tracks



### Job Path / Responsibility

- 1 Directors, VPs, GMs
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- 4 Non-mechanical quality engineers & machine operators
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- 6 Senior quality technicians
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- 8 Quality engineers, precision measurement engineers, statisticians



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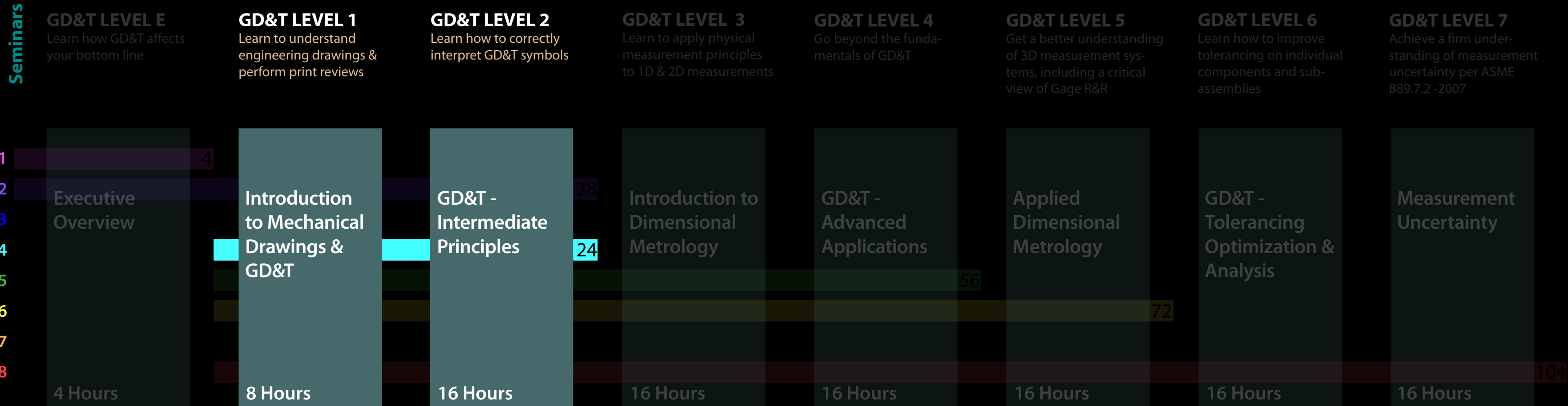


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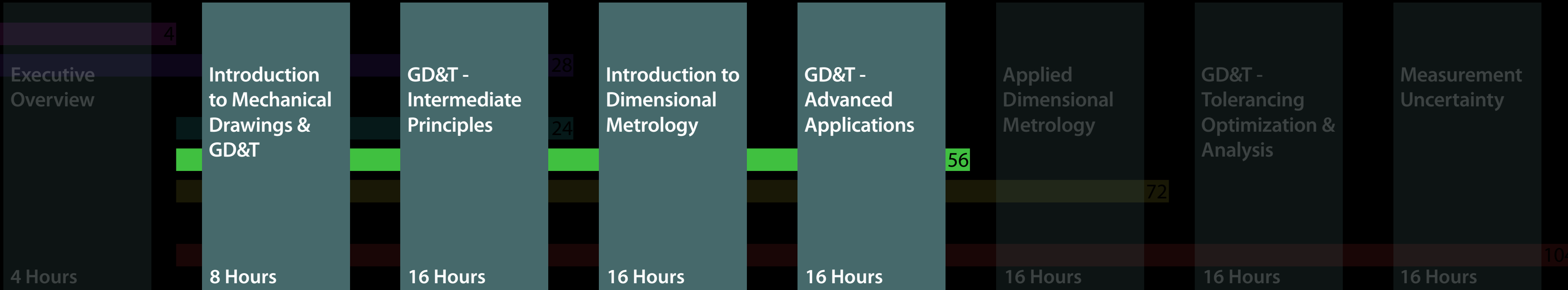
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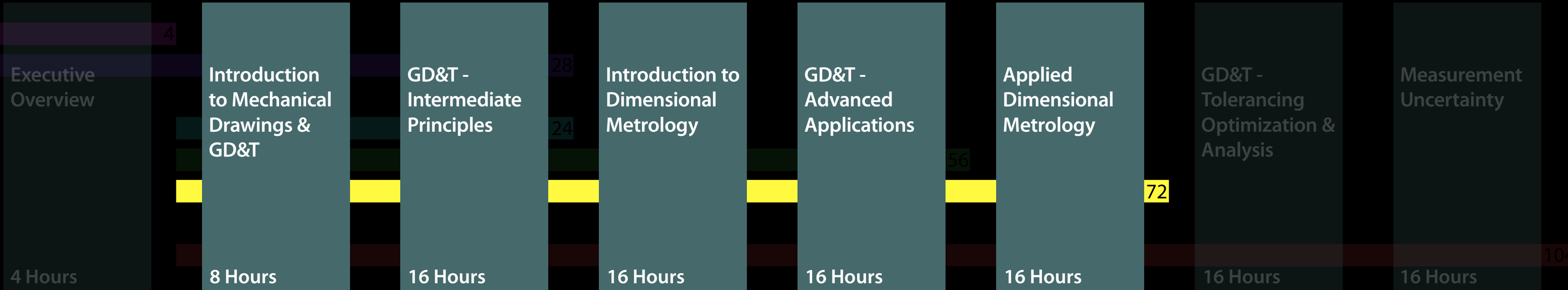
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