

# Eight tracks to GD&T expertise

## Tool room–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

Manager 2

Introduction 3

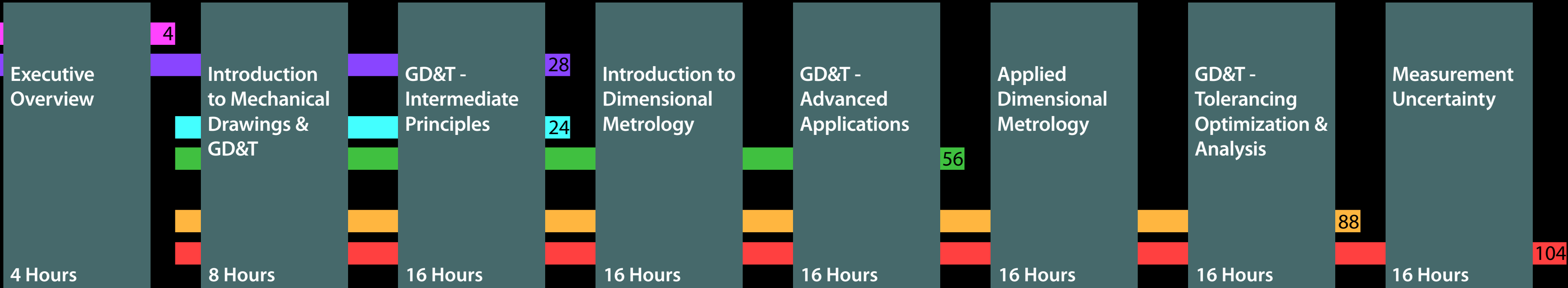
Fundamentals 4

Applications 5

Systems 6

Analysis 7

Command 8



### Job Path / Responsibility

- 1 Directors, VPs, GMs
- 2 Managers
- 3
- 4 Machine operators
- 5 Machinists & toolmakers
- 6
- 7 Mechanical tool designers
- 8 Engineers



Dr. Greg Hetland  
 Phone: (651) 275-8952  
 Fax: (612) 395-5405  
 www.iigdt.com

**IIGDT**  
 12159 Quail Ave. Lane N.  
 Stillwater, Minnesota 55082  
 U.S.A.

# Eight tracks to GD&T expertise

## Tool room–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	
Applications 5	
Systems 6	
Analysis 7	
Command 8	
	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

### Job Path / Responsibility

- 1 Directors, VPs, GMs
- 2 Managers
- 3
- 4 Machine operators
- 5 Machinists & toolmakers
- 6
- 7 Mechanical tool designers
- 8 Engineers



Dr. Greg Hetland  
 Phone: (651) 275-8952  
 Fax: (612) 395-5405  
 www.iigdt.com

**IIGDT**  
 12159 Quail Ave. Lane N.  
 Stillwater, Minnesota 55082  
 U.S.A.

# Eight tracks to GD&T expertise

## Tool room–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

Manager 2

Introduction 3

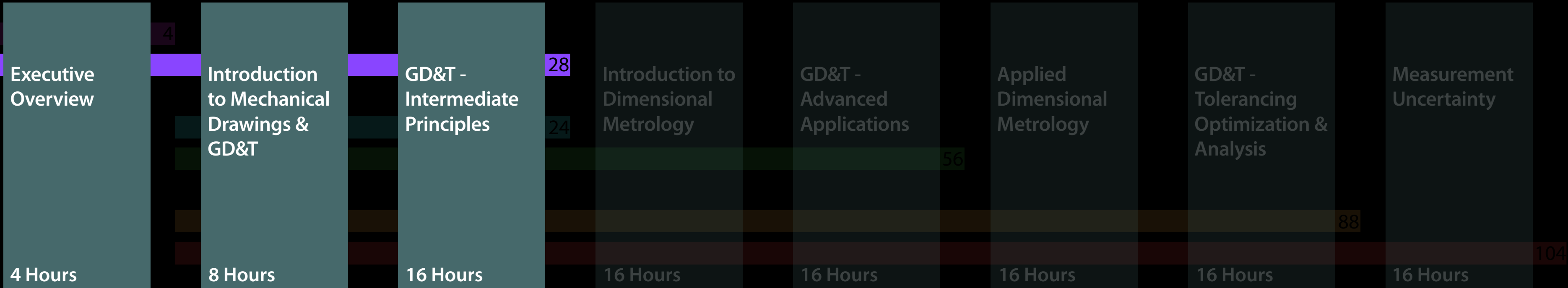
Fundamentals 4

Applications 5

Systems 6

Analysis 7

Command 8



### Job Path / Responsibility

- 1 Directors, VPs, GMs
- 2 Managers
- 3
- 4 Machine operators
- 5 Machinists & toolmakers
- 6
- 7 Mechanical tool designers
- 8 Engineers



Dr. Greg Hetland  
 Phone: (651) 275-8952  
 Fax: (612) 395-5405  
 www.iigdt.com

**IIGDT**  
 12159 Quail Ave. Lane N.  
 Stillwater, Minnesota 55082  
 U.S.A.

# Eight tracks to GD&T expertise

## Tool room–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

Manager 2

Introduction 3

Fundamentals 4

Applications 5

Systems 6

Analysis 7

Command 8



### Job Path / Responsibility

- 1 Directors, VPs, GMs
- 2 Managers
- 3
- 4 Machine operators
- 5 Machinists & toolmakers
- 6
- 7 Mechanical tool designers
- 8 Engineers



Dr. Greg Hetland  
 Phone: (651) 275-8952  
 Fax: (612) 395-5405  
 www.iigdt.com

**IIGDT**  
 12159 Quail Ave. Lane N.  
 Stillwater, Minnesota 55082  
 U.S.A.

# Eight tracks to GD&T expertise

## Tool room–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

Introduction 3

Fundamentals 4

Applications 5

Systems 6

Analysis 7

Command 8

Executive Overview  
4 Hours

Introduction to Mechanical Drawings & GD&T  
8 Hours

GD&T - Intermediate Principles  
16 Hours

Introduction to Dimensional Metrology  
16 Hours

GD&T - Advanced Applications  
16 Hours

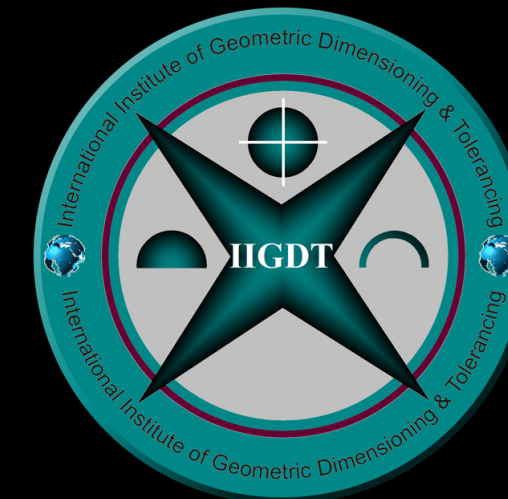
Applied Dimensional Metrology  
16 Hours

GD&T - Tolerancing Optimization & Analysis  
16 Hours

Measurement Uncertainty  
16 Hours

### Job Path / Responsibility

- 1 Directors, VPs, GMs
- 2 Managers
- 3
- 4 Machine operators
- 5 Machinists & toolmakers
- 6
- 7 Mechanical tool designers
- 8 Engineers



Dr. Greg Hetland  
Phone: (651) 275-8952  
Fax: (612) 395-5405  
www.iigdt.com

**IIGDT**  
12159 Quail Ave. Lane N.  
Stillwater, Minnesota 55082  
U.S.A.

# Eight tracks to GD&T expertise

## Tool room–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

Manager 2

Introduction 3

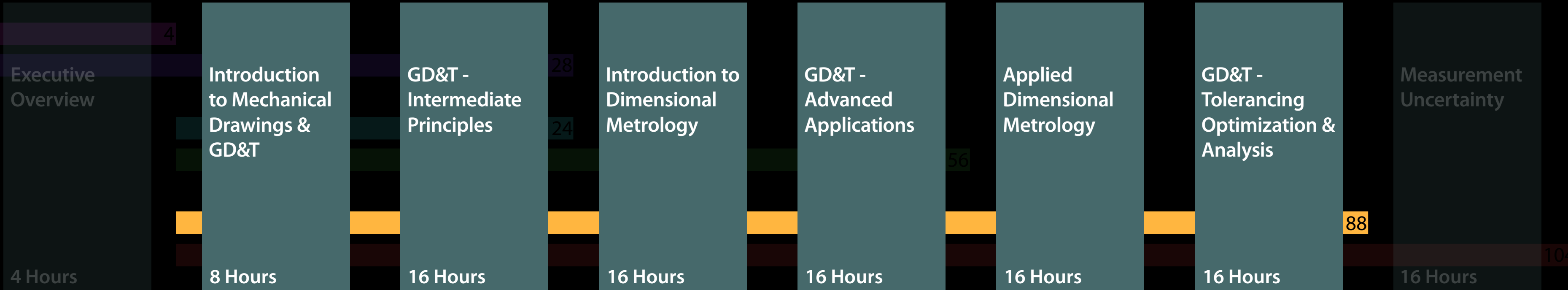
Fundamentals 4

Applications 5

Systems 6

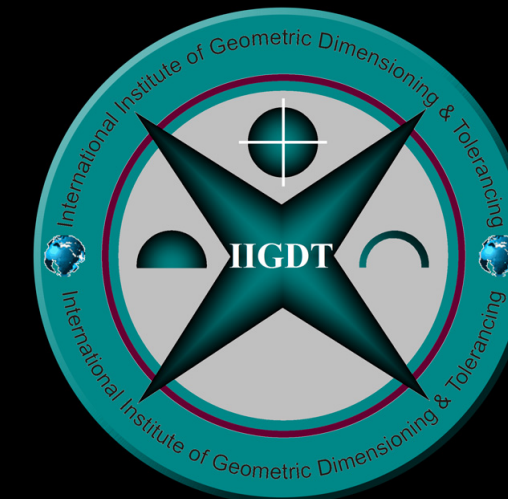
Analysis 7

Command 8



### Job Path / Responsibility

- 1 Directors, VPs, GMs
- 2 Managers
- 3
- 4 Machine operators
- 5 Machinists & toolmakers
- 6
- 7 Mechanical tool designers
- 8 Engineers



Dr. Greg Hetland  
 Phone: (651) 275-8952  
 Fax: (612) 395-5405  
 www.iigdt.com

**IIGDT**  
 12159 Quail Ave. Lane N.  
 Stillwater, Minnesota 55082  
 U.S.A.

# Eight tracks to GD&T expertise

## Tool room–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

Manager 2

Introduction 3

Fundamentals 4

Applications 5

Systems 6

Analysis 7

Command 8



### Job Path / Responsibility

- 1 Directors, VPs, GMs
- 2 Managers
- 3
- 4 Machine operators
- 5 Machinists & toolmakers
- 6
- 7 Mechanical tool designers
- 8 Engineers



Dr. Greg Hetland  
 Phone: (651) 275-8952  
 Fax: (612) 395-5405  
[www.iigdt.com](http://www.iigdt.com)

**IIGDT**  
 12159 Quail Ave. Lane N.  
 Stillwater, Minnesota 55082  
 U.S.A.