

# CH0302 Process Instrumentation

## Lecture 5 – Introduction – Summary



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# Introduction – Summary



# Introduction – Crude

Introduction

Measurements

Characteristics

Functioning  
Elements

Control Center

# Introduction – Refining



## Introduction

- Anatomy of Chemical Production Process
- Block Diagram
- Process Flow Diagram
- Process and Instrumentation diagram
- Codes used for PFD and P&ID

# Introduction – Refining

## Introduction

- Why instrumentation?
- What does measurement mean?
- Direct and Indirect Measurement
- Functions fulfilled by instruments
- Elements of measuring instruments
- Types of instruments



# Introduction – Refining

## Introduction

- Characteristics
- Static
- Dynamic
- Desired
- Undesired
- Problems



# Introduction – Refining



# Introduction – Cloud of refined ideas

## Introduction

- Why instrumentation?
- What does measurement mean?
- Direct and Indirect Measurement
- Functions fulfilled by instruments
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## Introduction

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- Characteristics
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- Desired
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## Introduction

- Recoding
- Indicating and Signaling
- Transmitter arrangements



# Introduction – Final Preparation and the Outcome

Hard/Smart work with  
practice always brings smile  
and inner happiness





Thank you and  
Let's Start the next  
Chapter 2.

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All the Best