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I	SECTION CODE	<b>IETM</b>
II	SECTION NAME	<b>INDUCTION TO ENGINEERING TECHNOLOGY AND MANAGEMENT</b>
III	COURSE CODE	<b>IETM-01</b>
IV	COURSE TITLE	<b>AWARENESS COURSE ON TQM &amp; ISO 9001 STANDARDS</b>
V	DURATION	01 Week
IV	<b>OBJECTIVES</b>	
On completion of the course, the learner will be able to able to understand basic concepts of Total Quality Management and ISO 9001 standards		

## VI Course Content :

<b>Theory topics</b>	<b>Practical Topics</b>
Quality concepts ,Total Quality Management, Need of TQM, TQM principle , Deming PDCA cycle , Quality circles QC tools Introduction Five ‘S’, Kaizen, Quality Management System, Introduction to ISO , Requirements of ISO 9001 Clauses.	Case study on PDCA cycle case study on QC tools

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I	SECTION CODE	<b>IETM</b>
II	SECTION NAME	<b>INDUCTION TO ENGINEERING TECHNOLOGY AND MANAGEMENT</b>
III	COURSE CODE	<b>IETM-02</b>
IV	COURSE TITLE	<b>QUALITY CONTROL CIRCLES</b>
V	DURATION	01 Week
IV	<b>OBJECTIVES</b>	
<p>On completion of the course, the learner will be able to understand basic concepts of Quality circles and of QC tools.</p>		

## VI Course Content :


Theory topics	Practical Topics
Quality Concepts , Introduction to Quality circle ,constitution & activities of QC , QC tools - Check sheet ,Pareto diagram, Brainstorming, cause and effect diagram, Graphs & control charts, Stratification, scatter Diagram, Histogram.	Quality circle case studies



I	SECTION CODE	<b>IETM</b>
II	SECTION NAME	<b>INDUCTION TO ENGINEERING TECHNOLOGY AND MANAGEMENT</b>
III	COURSE CODE	<b>IETM-03</b>
IV	COURSE TITLE	<b>AWARENESS COURSE ON LEAN MANUFACTURING</b>
V	DURATION	01 Week
IV	<b>OBJECTIVES</b>	
On completion of the course, the learner will be able to able to understand basic concepts of basic concepts of Lean manufacturing		

**VI Course Content :**

<b>Theory topics</b>	<b>Practical Topics</b>
Quality Concepts, Introduction to lean manufacturing , lean manufacturing- Goals, Principles , QC tools - Check sheet, 8 wastes in Lean , Five 'S', Kaizen , Lean tools- poke yoke ,Jidoka , Takt time, JIT & Kanban	Lean manufacturing case studies


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II	SECTION NAME	<b>INDUCTION TO ENGINEERING TECHNOLOGY AND MANAGEMENT</b>
III	COURSE CODE	<b>IETM-04</b>
IV	COURSE TITLE	<b>SUPERVISORY DEVELOPMENT PROGRAMME</b>
V	DURATION	01 Week
IV	<b>OBJECTIVES</b>	

On completion of the course, the learner will be able to able to understand supervisory roles & responsibilities, soft skills and quality concepts.

## VI Course Content :


<b>Theory topics</b>	<b>Practical Topics</b>
Supervisor –Role and responsibilities , Communication Skills, Team building ,Time management, Leadership ,Attitude & Behavior, Safety ,Quality concepts ,Five “S” , Kaizen	Exercise on soft skills

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II	SECTION NAME	<b>INDUCTION TO ENGINEERING TECHNOLOGY AND MANAGEMENT</b>
III	COURSE CODE	<b>IETM-05</b>
IV	COURSE TITLE	<b>READING OF ENGINEERING DRAWING</b>
V	DURATION	02 Week
IV	<b>OBJECTIVES</b>	
On completion of the course, the learner will be able to understand Fundamental concepts of Engineering drawing		

**VI Course Content :**

<b>Theory topics</b>	<b>Practical Topics</b>
Introduction to Engineering drawing, Dimensioning, Scales, Orthographic projection, First angle projection, Third angle projection, Identification of surfaces, Orthographic to Isometric, conventional representation of symbols, Sectioning, Limits, fits and Tolerance, Introduction to 2D drafting, Basic AUTOCAD commands, Introduction to assembly drawings	Exercises on First and third angle projections AutoCAD commands practice

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II	SECTION NAME	<b>INDUCTION TO ENGINEERING TECHNOLOGY AND MANAGEMENT</b>
III	COURSE CODE	<b>IETM-06</b>
IV	COURSE TITLE	<b>TOTAL PRODUCTIVE MAINTENANCE</b>
V	DURATION	01 Week
IV	<b>OBJECTIVES</b>	
On completion of the course, the learner will be able to able to understand basic concepts of Total Productive Maintenance tools and implementation		

#### VI Course Content :

<b>Theory topics</b>	<b>Practical Topics</b>
Introduction to TPM, Kaizen & Five “S”, Need for TPM, TPM pillars- Autonomous Maintenance, Focused Improvement, Planned maintenance, Quality maintenance, Education & Training , Development management , Safety , health & Environment , Office TPM, TPM implementation	Case studies, Exercises on OEE calculation