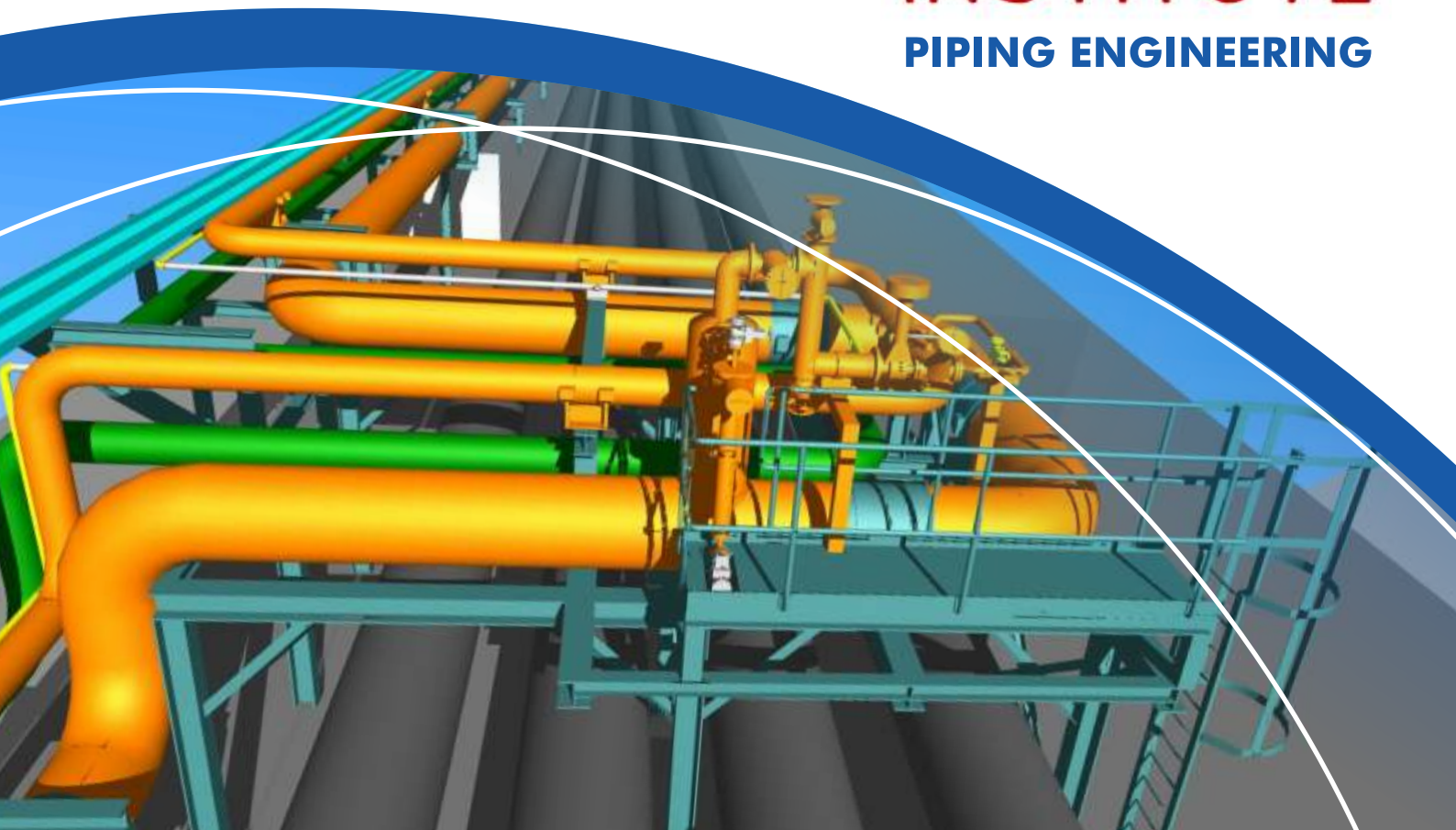




CADD
INSTITUTE
PIPING ENGINEERING



About CADD Institute

CADD Institute a Subsidiary of RAP Technologies Private Limited (An ISO 9001:2008 Company), a 8 year old company offers services to the Design, Drafting, Engineering Manufacturing & Consultancy organizations across the globe. CADD Institute acclaimed its repute through its strong and all round in depth technical expertise, project execution, client support, exceptional quality and customer care.

Mission Statement

With our drive towards excellence and quest for continual improvement, we are committed to every sphere of our business operations with dedication, espouse highest quality, and profound technical expertise by employing skilled personnel for the complete customer satisfaction.

Technical Expertise

Our team of experienced manpower with its adept astute, innovative and practical expertise provides the best solutions that can seamlessly integrate into your business building blocks.

Code of Business

CADD institute is driven with the highest standards of business codes and conduct. The management of CADD institute is committed to ethics and integrity of its business rationale.

Market Segments Currently Covered

- Animation
- Automotive
- Aerospace
- Architectural
- Construction Engineering
- Design Engineering
- Heavy engineering
- HVAC
- Oil and Gas
- Process and Power



PIPING ENGINEERING

Piping systems are like arteries and veins. They carry the lifeblood of modern civilization

The design, construction, and maintenance of various piping systems involve understanding of piping fundamentals, materials, generic and specific design considerations, fabrication, installation, field examination, testing and inspection requirements and in addition to the fulfilment of state and federal regulations.

Course Curriculum:

Course Duration: 80 Hours

PIPING INTRODUCTION

- ⊙ Piping fundamentals
- ⊙ Piping terminology
- ⊙ Industrial piping systems
- ⊙ Understanding piping applications

PIPING MATERIALS

- ⊙ Metallic and non-metallic materials
- ⊙ Material properties
- ⊙ Physical, Chemical and Mechanical properties of metals
- ⊙ Metallurgical aspects of piping

DESIGN CONSIDERATIONS

- ⊙ Thermodynamic considerations
- ⊙ Pressure considerations
- ⊙ Corrosive and material life considerations
- ⊙ Statutory considerations

PIPING LAYOUT

- ⊙ Piping layout considerations
- ⊙ Interference
- ⊙ Layout planning
- ⊙ Components locations
- ⊙ Controls and instrumentation

DESIGN CALCULATIONS

- ⊙ Pipe thickness calculations
- ⊙ Pipe weight calculations
- ⊙ Pipe economics calculations
- ⊙ Statutory requirement calculations

PIPING SUPPORTS

- ⊙ Different types
- ⊙ Selection of supports
- ⊙ Applications of supports



PIPING EXPANSION

- ⊙ Design considerations
- ⊙ Expansion joints

VALVES

- ⊙ Types
- ⊙ Applications
- ⊙ Selection
- ⊙ Materials

PIPING STANDARDS & APPLICABLE CODES

ASME –B 31.1

- ⊙ Introductions
- ⊙ Application of codes

PUMPS

- ⊙ Various types
- ⊙ Applications
- ⊙ Selections
- ⊙ Performance
- ⊙ Pressure drops, Head calculations

PIPE JOINTS

- ⊙ Welding
- ⊙ Bracing
- ⊙ Threading
- ⊙ Flanges
- ⊙ Gaskets
- ⊙ Traps

PIPING INSULATION

PIPE STRESS ANALYSIS THEORY.

- ⊙ Introduction to Thermal analysis
- ⊙ Introduction to seismic analysis
- ⊙ Introduction to Pipe break analysis

INDUSTRIAL PIPING APPLICATIONS

PIPING DRAWINGS

- ⊙ Plot plan
- ⊙ Lay outs
- ⊙ PED& P&ID and its importance
- ⊙ Symbols
- ⊙ Battery limits
- ⊙ Drawing generation principles, Isometrics



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