PV ELITE COURSE

PRESSURE VESSEL DESIGN THEORY AND ANALYSIS - EXPERT LEVEL

• FUNDAMENTALS OF STRESS, STRAIN AND ELASTICITY	• INTRODUCTION TO PRESSURE VESSEL CODES
• TYPES & CLASSIFICATION OF STRESS	• DISCONTINUITY STRESSES & THERMAL STRESSES
• CONSTITUTIONAL RELATIONSHIP	• NOZZLE REINFORCEMENT CALCULATIONS
• THEORIES OF FAILURES	• WRC107/297 CALCULATION PROCEDURE
• INTRODUCTION TO PRESSURE VESSEL	• COMPARISON OF ASME SEC VIII DIV1 AND DIV2 AND DIV3
• THIN SHELL AND THICK SHELL THEORY FOR PV	• FATIGUE CALCULATIONS
• PRESSURE VESSEL COMPONENTS AND MATERIALS	• MODAL CALCULATIONS
• CYLINDRICAL SHELL, CONICAL AND SPHERICAL . HEADS (HEMI SPHERICAL, ELLIPSOIDAL, TORI SPHERICAL, FLAT)	• INTRODUCTION TO PV-ELITE
• LOAD AND LOAD COMBINATIONS	• COMPONENT DESIGN SUCH AS SHELL, DISH AND NOZZLES
• STRESS CATEGORIES AND DESIGN LIMIT STRESSES	• FLANGE DESIGN AND ANALYSIS
• PRESSURE VESSEL SUPPORTS. (SKIRT, LUG, LEG, SADDLE)	• PROCESS COLUMN DESIGN
• PRINCIPLES OF SADDLE SUPPORT DESIGN FOR LARGE HORIZONTAL PRESSURE VESSELS	• INSPECTION & TESTING OF PV
• PRINCIPLES OF TALL CYLINDRICAL SELF-SUPPORTING PROCESSING COLUMN DESIGN & INTERNALS (TRAYS AND PACKING)	• HEAT TREATMENT OF PV
• SUPPORTS FOR SHORT VERTICAL VESSELS	• HOW TO HANDLE PD5500 & EN13448

DURATION: 20 -25 Hrs. (Variable based on candidates)



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