

Power Transmission Systems

Power Transmission Systems is a three-day course designed for maintenance personnel that are responsible for the upkeep and maintenance of power transmission devices. Gears, belt drives, chain drives, and clutches will be studied in detail with a focus on maintenance principles and troubleshooting techniques designed to increase equipment reliability.

I. Gears

- Terminology
- Shaft Position
- Gear Types
- Selection
- Backlash
- Circulating Systems

II. Clutches

- Classifications
- Engagement Methods
- Clutching Methods
- Installation

III. Belt Drives

- Selection Considerations
- Drive Principles
- V-Belts
- Poly V-Belts
- Variable Speed Belts
- Positive Drive Belts
- Sheaves
- Troubleshooting

IV. Chain Drives

- Functions
- Principles
- Transmission Types
- Roller Chain Sprockets
- Chain Drive Arrangements
- Chain and Sprocket Inspection