



Course Info

Title	: Horizontal Directional Drilling (HDD) - Project Management		
Duration	: 2 days		
Location	: 69A, Jalan Teratai 7, Taman Johor Jaya, 81100 Johor Bahru, Johor, Malaysia		
Category	: Fundamental		
Trainer Name	:		
Target Audience	a) Manager	d) Government & Safety Personnel	
	b) Engineer	e) Anyone interested in the HDD industry	
	c) Supervisor		

Course Objective

Upon completion of this module, participants shall be able to:

- 1) Establish a comprehensive understanding of Horizontal Directional Drilling (HDD) technology and its practical applications.
- 2) Define project scope, objectives, and key deliverables for HDD projects in alignment with industry standards.
- 3) Develop detailed HDD project plans encompassing scheduling, budgeting, and effective resource management.
- 4) Evaluate potential risks associated with HDD projects and implement appropriate mitigation strategies.
- 5) Apply industry best practices to ensure safety, regulatory compliance, and environmental responsibility throughout HDD operations.

Learning Outcome

Upon completion of this module, participants shall be able to:

- 1) Explain the fundamentals of Horizontal Directional Drilling (HDD) technology and its applications in various project environments.
- 2) Determine project scope, objectives, and key deliverables in accordance with industry requirements.
- 3) Prepare comprehensive HDD project plans that incorporate scheduling, budgeting, and resource allocation.
- 4) Analyse potential risks in HDD projects and recommend effective mitigation measures.
- 5) Demonstrate the application of industry best practices to maintain safety, regulatory compliance, and environmental sustainability.

Training Approach/Methods

The training will be conducted using the following methods:

- 1) Brief facilitator-led discussion.
- 2) Group reflection based on real-life examples.
- 3) Role-play exercises.
- 4) A summary with key takeaway tips.

Course Outline

The training will be cover using the following outline:

Chapter 1 - Introduction to HDD

- 1) Overview of HDD Technology
- 2) HDD Basic Component
- 3) HDD Process
- 4) HDD System

Chapter 2 - HDD System

- 1) Feasibility Considerations
- 2) Underground Utility Detection



Course Outline (Continued)

The training will be cover using the following outline:

Chapter 3 - HDD Project Management

- 1) Project Planning & Scheduling
- 2) Basic Bore Planning & Design

Chapter 4 - HDD Operations Safety

- 1) Hazard & Risk Control
- 2) Emergency Response Plan (ERP)
- 3) Safe Work Practice
- 4) Preventing Underground Utility Damage

Chapter 5 - Execution & Monitoring Project

- 1) Project Preparation
- 2) Drilling Fluids Handling
- 3) Pipe Handling During Pullback
- 4) Site Monitoring

Chapter 6 - Post Drilling

- 1) Pipe Inspection & Testing
- 2) Site Restoration
- 3) Site Measurement
- 4) Report Preparation

Time Table

Day 1

Time	Topics	Hours/Mins	Trainer
08:30 - 09:00	Registration and Ice-Breaking Session	0.30	
09:00 - 10:30	CP1: Introduction to HDD	1.30	
10:30 - 10:45	Morning Break	0.15	
10:45 - 12:15	CP2: HDD System	1.30	
12:15 - 13:15	Lunch Break	1.00	
13:15 - 14:15	Cont CP2: HDD System	1.00	
14:15 - 15:45	CP3: HDD Project Management	1.30	
15:45 - 16:00	Tea-Break	0.15	
16:00 - 17:00	Cont CP3: HDD Project Management	1.00	
17:00	End of Day		

Day 2

Time	Topics	Hours/Mins	Trainer
08:30 - 09:00	Ice-Breaking Session	0.30	
09:00 - 10:30	CP4: HDD Operations Safety	1.30	
10:30 - 10:45	Morning Break	0.15	
10:45 - 12:15	CP5: Execution & Monitoring Project	1.30	
12:15 - 13:15	Lunch Break	1.00	
13:15 - 14:15	Cont CP5 : Execution & Monitoring Project	1.00	
14:15 - 15:45	CP6: Post Drilling	1.30	
15:45 - 16:00	Tea-Break	0.15	
16:00 - 17:00	Case Study	1.00	
17:00	End of Day		