ENGINEERING TRAINER

Practical Guide to Plant Layout

This plant-layout course connects site selection and plot-plan development with safety, constructability, operations, maintenance access and equipment arrangement. A layout exercise helps designers evaluate how process and piping decisions affect the whole plant. This self-paced online course includes video lectures, worked example and a completion certificate with PDH credits.

Buy This Course

Request a Quote or Invoice

ONLINE	SELF-PACED	1-YEAR ACCESS
3 MODULES	1.5 PDH	1.5 HOURS

TRUSTED BY ENGINEERING TEAMS WORLDWIDE

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What you'll learn

Plant layouts have a major influence on the operation of a plant. An improper layout design can lead to hazardous situations, impractical maintenance or reduced plant efficiency. These can have a significant financial impact for the owner of the plant. So understanding the various considerations that come with determining a plant layout is important for designing a proper layout.

In this course different considerations are discussed for different levels of layout design and applications. This will increase your understanding of what has to be taken into account when designing a plant layout. Topics include safety, proximity, maintenance, constructability, practicality and economic considerations. After this course participants will have the knowledge to design a basic plant layout.

This course contains 3 online courses based on video content and exercises. An extensive case is included in the course, for which the solution is explained by the instructor.

Skills you'll gain

- ✓ have a good overview of the plant layout considerations,
- ✓ are able to design a basic plant layout,
- ✓ can identify the potential hazards on a plant and incorporate them in your layout design,
- ✓ understand what information is required to design different layouts,
- ✓ have an overview of which personnel and stakeholders are involved during the plant layout design phase.

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About the instructor

Mike Lureman

Mike Lureman is a retired senior mechanical engineer with experience in plant layout and pipe-support design. His work covers site and plot-plan decisions, equipment arrangement, constructability, maintenance access and practical support selection.

Who this course is for

- ✓ Plant-layout designers at beginner or intermediate level
- ✓ Piping designers responsible for equipment and routing space
- ✓ Process engineers whose designs affect plant layout
- ✓ Civil engineers involved in site selection or plot planning
- ✓ Structural engineers coordinating plant-layout interfaces
- ✓ Project engineers reviewing constructability and maintenance access

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Course content

Module 1 - Development and Deliverables

- Layout Development Objective and Development Team
- Definition of Key Layout Deliverables

Module 2 - Layout Considerations

- Site Master Plan Considerations
- Plot Plan Considerations
- Example of Equipment Arrangement
- Plant Layout General Considerations

Module 3 - Exercise on Plant Layout

- Introduction
- Quick Questions
- Considerations
- Plant Layout Exercise
- Explanation