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TRAINING —

PROCESS PLANT SHUTDOWN & TURN AROUND TRAINING



VELOSI TRAINING
INSTITUTE L.L.C.

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INTRODUCTION

Velosi Training Institute LLC is a subsidiary of Velosi Asset Integrity Limited, which offers a comprehensive range of specialized courses in Certified Technical Training, Exam Preparatory, HSE, Training in Oil and Gas Field, ISO, NEBOSH, IOSH, Food Safety Courses, Administrative & Business-related training, Corporate and Postgraduate Qualifications.

As a globally recognized service and training provider, we strive to share our practical knowledge and skills with our delegates to help them implement industry safety best practices.

Our latest learning tool and technology help our delegates to sharpen their knowledge and support them for the next phase of their careers, whether as a professional or as owners of their own businesses. Velosi courses, which can be deployed virtually through online collaboration, include hands-on technical training, course materials, interactive labs, and troubleshooting exercises.

At Velosi, our most valuable asset is our experienced trainers, who are specialists in their fields and can customize the curriculum to the unique needs of our clients. Our training and education service has various international accreditations, recognitions, and associations to meet worldwide standards and increase the skills and knowledge of our participants.



**WE HELP YOU TO
BUILD A STRONG
FOUNDATION AND
SCORE HIGHER**

PROCESS PLANT SHUTDOWN & TURN AROUND TRAINING

The planning and management of start-ups and shutdowns in a process plant setting are becoming a more complicated and demanding task, all these essential steps will be explained and illustrated in this course. Plant shutdowns and startup operations must be properly planned, managed, and controlled to avoid unanticipated risks and expensive delays.

On the other hand, well-planned and carried out shutdowns lead to better preventative or urgent maintenance. By offering a comprehensive, in-depth examination of the topic, this course has been built extensively to address the requirement to assist owners and contractors in achieving their turnaround targets.

Velosi has a “learn to ace” approach, our team comprises professional and expert trainers who ensure to enhance your ability and skills through grasping knowledge about the specified course effectively. The participants of this training session will learn the most up-to-date methods for organizing, supervising, and managing maintenance activities. Furthermore, this course intends to provide numerous real-life case studies and implementations in an open discussion forum with the participants in addition to the scientific techniques and program materials. To enable interactive (active) learning, various instructional techniques are used throughout the course.

BENEFITS OF BEING VELOSI CERTIFIED!



INCREASED JOB OPPORTUNITIES



CAREER ADVANCEMENT



TECHNICAL EXPERTISE



WORLDWIDE RECOGNITION

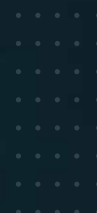
**EXPERT TRAINERS
WITH GOOD TRACK
RECORDS!**



LEARNING OBJECTIVES

By the end of this course, participants will learn to:

- | Gain knowledge of effective people and logistical management for shutdowns and startup situations.
- | Know how to clearly define, develop and regulate the shutdown and startup scope.
- | Learn to execute adequate planning for a successful shutdown and startup.
- | Discover how to engage contractors to ensure commitment during shutdowns and startup.
- | Efficiently choose performance metrics to ensure a smooth shutdown and restart.
- | Showcase the utilization of efficient and logical planning strategies for shutdown and startup.
- | Utilize industrial case studies to systematically carry out shutdowns and startups.





WHO SHOULD ATTEND?

This course is encouraged for a professional who hopes to learn and perform at a higher level but not limited to:

- Planning / Scheduling and cost control staff
- Shutdown or turnaround professionals and coordinators
- Plant Engineers
- Technicians
- Maintenance Engineers
- System Engineers
- Operators in the power generation, oil, chemical, paper, and other processing industries.
- Individuals/professionals involved in operating, maintaining, and troubleshooting or repairing.

COURSE OUTLINE

Module 1 – The Importance of Maintenance Shutdowns & Turnarounds in Leading Organisations

- How shutdowns and turnarounds contribute to a leading business
- Key success factors
- The three vital paths of shutdowns and turnarounds
- The difference between shutdowns and projects
- Shutdown and turnaround return on investment
- Shutdown and turnaround management self-assessment
- The shutdown and turnaround phases
- Reasons for shutdowns and turnarounds
- Critical Success Factors
- Shutdown functional areas and their practical contribution

Module 2 – Shutdown/Turnaround Preparation

- Risk management
- Justification requirements
- Communications to stakeholders
- Shutdown roles and organization
- RASCI/RACI matrix for shutdown
- Preparation critical success factors
- Identify routine preventive maintenance (PM) to be included in the scope
- Identify routine condition-based tasks to be performed prior to shutdown and turnaround
- Determine which functions will be tested at the end of the shutdown and turnaround.

Module 3 – Shutdown/Turnaround Preparation Continued

- Make use of CBM and degradation analysis to improve scope visibility.
- Use the notification process to manage the visibility of created scopes.
- Apply risk-based task selection methods to prioritize and challenge the scope
- Review, approve, communicate and freeze the scope
- The critical outcomes of planning
- The 5 Ms of maintenance work quality
- Job analysis and scoping
- Estimations
- Risk and contingency planning
- The use of planning templates
- Work breakdown structure

Module 4 – Shutdown and Turnaround Schedule

- Terms and concepts of scheduling
- Network display methods
- Apply the critical path method (CPM)
- Identify resource constraints
- Resource requirements based on CPM
- Resource smoothing
- Resource balancing
- Optimised resource profile
- Shutdown and turnaround budgets
- Allocate Shutdown Work - In-house and Contractors
- Types of contractors
- Types of contracts and criteria for selection
- The risks associated with employing contractors
- Benefits of using contractors on shutdowns
- Staying in control of the contractor

Module 5 – Shutdown & Turnaround, Execution Control and Review

- Shutdown work packaging
- Shutdown quality control
- Shift schedules
- Preparing equipment for the shutdown
- Daily schedules
- Dealing with emergent and additional work
- Control data
- Status accounting
- Controlling the shutdown
- S-curves
- Earned-value
- Shutdown performance indicators
- Shutdown and turnaround review meeting agenda
- Causes of shutdown failures
- Problems in shutdowns and their origins
- Start-up and commissioning
- Shutdown close-out reporting and review
- Shutdown closing out the review
- Overview of computerized tools
- Conclusion

PROCESS PLANT SHUTDOWN & TURN AROUND TRAINING

<p>Trainer Qualification</p>	<p>Certified Trainer, MSc holder, Technical Instructor, Engineer with over 15 years all round experience in the oil and gas covering Operation, Maintenance, Functional Safety, Process Safety, control system reliability, HAZOP, HAZID, SIL, HSE, FMEA, FMECA, FEED, Design Review, FAT, Commissioning, Training Planning and Contracts Management, certified as Complex EX inspector.</p> <ul style="list-style-type: none"> • Qualified to provide the above mentioned technical training
<p>Mode of Training</p>	<ul style="list-style-type: none"> • Online Training via Microsoft Teams (Live) • Face to Face Training (Class Room)
<p>Course Material</p>	<ul style="list-style-type: none"> • Presentation Slides • Study References • Training Records
<p>Number of Participants per Class</p>	<ul style="list-style-type: none"> • Minimum of 10 students per batch. • Course Duration of 30 Hours including examination & clarifications. • The training schedule is flexible and will be either in the mornings on the weekends and evenings on weekdays as per Velosi's approved training schedule (for online training).
<p>Admission Policy</p>	<ul style="list-style-type: none"> • The interested participants should register his/her name and other necessary details through Velosi's online registration form or email confirmation to the designated contact person. • Payment must be settled in full after the registration process. Payment can be made online through the payment link provided by Velosi or through a bank transfer.
<p>Certification Issuance Policy</p>	<ul style="list-style-type: none"> • The training certificate (Digital Copy) will be awarded to participants who completed the training and passed the exam with an 80% or higher score.
<p>After Training Support</p>	<ul style="list-style-type: none"> • Students will be supported in adding value to their respective courses by the trainers. They will be given extra support to enhance their career opportunities with technical support. VTI focuses on supporting and encouraging the students by bringing qualitative knowledge in the technical field. Students can acquire all possible support anytime.

A man with a beard and glasses, wearing a hoodie, is looking at a laptop screen. The image is overlaid with a teal color. The text "GET READY TO ADVANCE YOUR CAREER!" is written in bold yellow letters on the left side of the image.

**GET
READY TO
ADVANCE
YOUR
CAREER!**

TRAINING CATEGORIES

From Certified Technical training to Post-Graduate Qualification, our training categories let you quickly select your chosen course and ensure you remain at the forefront of developments throughout various industries. Our training program is divided into the following categories:

1. Certified Technical Training
2. Exam Preparatory Training
3. HSE Training
4. Training in Oil and Gas Field
5. ISO training
6. NEBOSH
7. IOSH
8. Food Safety Training
9. Mobius Courses
10. CertNexus Courses
11. Administrative and Business-Related Training
12. Postgraduate Qualifications

WHY CHOOSE US

At Velosi, we truly believe in helping and going beyond to guarantee our participants to get the value for what they have paid for.

- Four decades of Industry experience.
- Highly professional company and good working relationship with agencies.
- Reasonably priced training and seasonal discounts.
- Adaptable to your course schedule.
- Accessible from anywhere, at any time, on any device of your choice.
- Continuous Assessment of Training.
- Ability to learn at your own time with access to live recordings.
- Incorporate Case Studies from Real-World Situations.
- Trainees are eligible to earn Continuing Professional Development (CPD) credits.



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