



Your productivity experts.



RELIABILITY &  
MAINTAINABILITY  
CENTER

*RMIC® Approved Course*

# Shutdown, Turnaround, and Outage Management Optimized

Regardless of whether your organization uses the term maintenance shutdown, turnaround, or outage (STO), the reality is that many groups struggle with their processes and procedures to optimize these activities, minimize costs, and reduce the defects preventing timely process startup. Some outages are 3-6 months in duration occurring once every 5-6 years. Not all STO events are long outages. Some organizations perform minor outages consisting of one to two days per line or process at a bi-monthly interval as an example.

The cost of longer STO events can be staggering in of itself. Lost revenues while the equipment is down, and the cost of labor and materials for the shutdown. Costs quickly spiral upwards when the execution is not well planned, leading to longer startup and commissioning activities. Thinking over your past STO events, how many times have you be required to shutdown and rework items that were not correctly done in the shutdown itself? Due to the costs, it is important that STO events be treated differently than the normal daily and weekly maintenance activities. To that end, People and Processes, Inc.'s three-day course is designed with the following objectives to help you and your organization:

- Learn approaches to minimize or reduce the need for longer STO activities by leveraging proactive maintenance approaches where feasible
- Optimize your organization's performance in the six distinct phases of shutdowns, turnarounds, and outages. These phases are:
  - Work Identification, definition, and scoping
  - Planning for performance
  - Scheduling
  - Execution
  - Startup and turnover
  - Evaluation and review

## 100% MONEY-BACK GUARANTEE

We guarantee overall quality with a 100% money-back guarantee on the course fee. See the registration page for details.

## IN THESE PHASES, COURSE ATTENDEES WILL LEARN HOW TO:

- Build an effective STO team with stakeholder partnerships for STO “mode”
- Map and then, optimize the business processes and roles
- Better define work identification and scoping activities
- Perform planning at the appropriate levels to include work packages
- Improve on Materials kitting, staging, and laydown area approaches
- Schedule and apply logistics
- Defect prevention in the execution phase
- Develop startup and commissioning approaches
- Properly document the work execution and follow-on activities
- Develop STO specific performance measures
- Establish the follow-on After Action Reviews

## WHO CAN BENEFIT:

- STO planners and schedulers
- Project engineers
- Reliability engineers
- Storeroom and logistics personnel
- Materials coordinators
- Managers and supervisors
- Contractors and support personnel
- Buying/purchasing groups

## COURSE INFORMATION

Leveraging adult learning concepts, the course is presented in a blended learning format of instructor-led exercises, activities, and presentations. Attendees will receive a course guide, handouts, and templates that they can immediately place in use on their return to work. The course is available on your site or periodically at a public venue. Students completing the course will receive 2.1 Continuing Education Units (CEU's) and a certificate of attendance. All of People and Processes, Inc. courses count toward the University of Tennessee's Reliability and Maintainability Center RMIC certification.

