

Quality & Productivity Solutions, Inc.

ADMIN: One Sunny Hill, Oxford, MA 01540 Phone: (508) 987-3800 Fax: (508) 987-1464

TRAINING CENTER: The QPS Institute - Cedar Hill Place - 225 Cedar Hill Street - Floor 3 - Marlborough, MA 01752

Email: info@qpsinc.com Website: www.qpsinc.com

Leadership & Management Development Training Plan (Customized)

Course No. 332 / DET Course ID: 1087069

This consists of a series of courses, all which prepare students to be an expert in Quality, Business Improvement and Project Management in any type of manufacturing or service business. (Project Management Certification Preparation, Risk Management Certification Preparation, Certified Manager of Quality Preparation, Lean Six Sigma Green Belt, Six Sigma Black Belt, and choice of Supply Chain Professional or Operations Management)

Course Benefits

Student will be able to add variety of skills, tools, techniques and qualifications to market to any manufacturing, software or service organization. The course design is based on what businesses need now.

Prerequisites Quality Concepts, Project Management Background, Process Management Background. See ASQ's, PMI's and APICS' certification requirements also.

Type of Training

Classroom Training, Exercises, Workshops & Coaching. No additional charges for additional and personal one on one coaching. **GURANTEED SATISFACTION** (additional help / coaching until the training needs / certificate requirements are met).

Courses – Select any 5!

1. Lean Six Sigma Green Belt
2. Six Sigma Black Belt
3. PMI Project Management Professional® (PMP® Prep)
4. PMI Risk Management Professional® (RMP® Prep)
5. APICS Supply Chain Professional
6. APICS Operations Management
7. ASQ Certified Manager of Quality (CQM)

Expected Outcome – Select any 5!

- Lean Six Sigma Green Belt Certification (A certificate is provided upon passing the exam on last day of class)
- Six Sigma Black Belt Certification (A certificate is provided upon successful completion of the training first, then another plaque is provided upon submission of the project report. The Project Report can be submitted during employment in 18 months.)
- Project Management Professional (PMP®) Certification Prep (A certificate is provided upon passing the QPS exam.)
- Risk Management Professional (RMP®) Certification Prep (A certificate is provided upon passing the QPS exam.)
- Supply Chain Professional (A certificate is provided upon passing the QPS exam.)
- Operations Management Prep (A certificate is provided upon passing the QPS exam.)
- Certified Manager of Quality Prep (A certificate is provided upon passing the exam.)

Duration Classroom - besides coaching and mentoring, **FULL TIME** - 13 weeks, 26 hours per week (averaging time varies from 20 hours to 32 hours during 3 or 4 days per week)

Cost \$15,000 (includes materials)

Business Solution Providers for Quality, Productivity and Performance Excellence
Experts in Lean Six Sigma, Management System, Supply Chain, Project Management and Professional Development

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Six Sigma Black Belt Certification

Course No. 114

This course is based on ASQ's Body of Knowledge and follows the DMAIC model. It provides instruction in the tools and techniques and the soft skills needed to effectively lead projects. This course is sixteen days of rigorous and applied training over a four month period.

Course Benefits

Attendees learn to implement breakthrough improvements, to lead Six Sigma projects, to support management in the deployment of Six Sigma, and to use Six Sigma tools and techniques to achieve bottom-line success.

Session One:

Six Sigma Improvement Methodology and Tools for
DEFINE & MEASURE

- Six Sigma Orientation
- Six Sigma Metrics
- Project Management
- Team Building
- Voice of The Customer/QFD
- Process Mapping
- Probability
- Basic Statistics
- Process Capability
- FMEA
- Measurement Systems Analysis
- Basic Tools and Techniques

Session Two:

Six Sigma Improvement Methodology and Tools for
ANALYZE

- Project Review
- How to Use Minitab
- Basic Statistics Summary
- Collecting and Summarizing Data
- Benchmarking
- Root Cause Analysis
- Central Limit Theorem
- Power and Sample Size
- Multi Vari Analysis
- Confidence Interval

- Hypothesis Testing
- Correlation & Regression
- Analysis of Variance
- Group Dynamics

Session Three:

Six Sigma Improvement Methodology and Tools for
IMPROVE

- Design of Experiments – Background and Roadmap
- Full and Fractional Factorial Experiments
- Other Statistical Tools
- Response Surface Methods/Setting Operating Tolerances
- Evolutionary Operations
- Facilitating Teams

Session Four:

Six Sigma Improvement Methodology and Tools for
CONTROL & LEAN

- Control Charts
- Control Plan
- Mistake Proofing
- Reliability
- Quality Management System
- Overview- Design for Six Sigma
- Lean Orientation
- Managing For Change

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Project Management Certification- PMI PMP® Preparation

Course # 221 (DET Course # 1054679, part of 1054680 & 1025927)

This course has been designed to understand fundamentals, processes, tools and techniques in Project Management and also to prepare for the PMI Certified Project Management Professional Exam. The course covers all the required areas of the body of knowledge, as specified by the Project Management Institute. This knowledge will increase your competency in Project Management and prepare you to take PMI's PMP or CAPM Certification Exam.

Course Benefits

- Participants will learn all the required areas of the body of knowledge, as specified by PMI Body of Knowledge.
- This course measures your knowledge at every step with access to nearly 500+ exam questions
- Access to knowledgeable instructors
- Comprehensive materials
- Take a simulated 4-hour Practice and Final exam (similar to PMI PMP)
- Certificate of course completion and meeting education requirements
- Discussion, interaction, class exercises all would help understand different aspects in the Project Management Profession
- Guaranteed satisfaction (additional classes, coaching and mentoring at no charge until you pass the exam, Note: 50% of the time is spent on discussion, exercises and reviewing questions.

Learning Objectives: The students will be prepared to:

- Learn and apply a basic and an advanced knowledge of the project
- Understand the content and format of examination questions
- Identify areas that require more individual study
- Pass the Project Management Professional (PMP®) certification examination

Student's comments:

- "This course helped me to understand how the PMBOK applied in the IT and Service areas."
- "The QPS guaranteed policy works since I was able to repeat the class on Risk Management and MS project Software after 10 months to deploy in my organization."
- "QPS instructors are well-qualified with over 20 years experience. Their experience in Project Management was very helpful in understanding the BOK."

Prerequisites: See PMI's PMP certification requirements

Duration: 3 weeks- 60 hours

Please note: includes class room materials (PMI BOK, PMP Exam Prep Book & QPS Binder).

Topics Covered: (PMI's PMP Body of Knowledge)

- Introduction, Exam Details, BOK,
- Practice Exam
- The Project Management Framework
 - Introduction
 - Organization & Life Cycle of the Project
- The Project Management Processes
 - Initiating Process Group
 - Planning Process Group
 - Executing Process Group
 - Monitoring & Controlling Process Group
 - Closing Process Group
- Project Integration Management
- Project Scope Management
- Project Time Management
- Project Cost Management
- Project Quality Management
- Project Human Resource Management
- Project Communications Management
- Project Risk Management
- Project Procurement Management
- Professional and Social Responsibility
- Review of Projects and Exercises
- Review of MS Project Software in the class (PCs are provided for class room use)
- 4 Practice Exams (800 questions)
- Final Exam (200 questions)

Who Should Attend?

- Managers, engineers, analysts, associates, project managers, and other professionals who deal with projects directly or indirectly / Anyone who is seeking certification / Mid-career professionals who seek to further develop their project management skills where certification would enhance getting jobs.

For further information: Contact the Training Administrator, Pam Martel info@qpsinc.com, Telephone: (508) 987-3800 or Jay Patel at 508-579-1006. WHY THIS COURSE IS THE BEST? Guaranteed satisfaction (no additional charge for individual coaching and mentoring, high placement rate, experienced instructors).

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Supply Chain (APICS Supply Chain CSCP Preparation)

Course No. 400

This course is designed for those that are in the supply chain industry. Our training provides a practical approach to understanding supply chain principles and concepts to help propel your business to the top of your industry and maintain a competitive edge.

Course Benefits

Participants will acquire the skills needed to be successful in supply chain. They will be prepared to be powerful change agents within their businesses.

Prerequisites

None

Certification Requirements

Class participation and passing the exam at course completion. Please check APICS certification requirements.

Topics Covered:

- Introduction & Learning Objectives
- Review of APICS CSCP Requirements
- Supply Chain Management Fundamentals
- Building Competitive Operational & Planning Logistics
- Managing Customer & Supplier Relationships
- Using IT to Enable Supply Chain Management
- Demand Management and Forecasting Techniques
- Priority and capacity planning at the Master Planning, MRP and PAC levels
- Aggregate and Item Inventory Management
- Purchasing and Physical Distribution
- Lean/JIT, Quality Systems and Theory of Constraints
- APICS Resources: Dictionary, etc.

Operations Management

(APICS Certified in Production and Inventory Management CPIM Preparation)

Course No. 401

This course is designed for those that are in the operations management industry, have an understanding of production and inventory management.

Course Benefits

Understand the managerial concepts of inventory and production, become more efficient in company supply chain processes, understand and carry out operations successfully, (planning, executing, evaluating and managing - streamlining, forecasting, etc.)

Accurately project outcomes, maximize customer satisfaction, Just-in-Time Methodology, increase company profits (optimizing inventory investment), enhance well-rounded credibility of success initiatives.

Prerequisites: None

Certification Requirements

Class participation, passing the exam at course completion. Please check APICS certification requirements.

Topics Covered:

- Management:
 - Production Management
 - Inventory Management
 - Operations Management
 - Supply Chain Management
 - Materials Management
 - Purchasing Demand Management
- Planning:
 - Plans: Executing / Implementing / Controlling them
 - Procurement Planning (external supplying sources)
 - Sales Planning
 - Material Planning (Process, Mechanics, Details)
 - Operations Planning (supporting, prioritizing)
 - Scheduling
 - Master Scheduling
 - Business Performance Measurement
 - Work: Sequencing / Prioritizing
 - Push & Pull Systems
 - Authorizing / Reporting Activity
 - Performance
 - Evaluations
 - Feedback
 - Competition Issues
 - Market Issues
 - Information Technology
 - Organizational Design
 - Project Management: Evaluating / Managing

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