REVUP LIVE TRAININGS OFFERED BY CCAT

Rev-up Process Innovation Awareness Training Program

Program Description:

This program provides participants from all departments with an understanding of the importance of focusing on organization's processes. It provides knowledge, skills and tools that aid process improvement efforts.

> Specific Objectives:

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- Learn Basic Process Mapping Skills
 - Understand the Primary Process Improvement Lessons presented in "The Goal" by E. Goldratt
 - Identifying the Bottlenecks
 - Elevating the Constraints
 - Moving QC forward in the Process
 - Sequencing and Batching
- Manage Process Improvement-oriented meetings
- Practice with "Process Improvement" examples

Program Timing/Length:

This program is designed with three sequential sessions lasting 3 hours each. Next Program 10/31,11/7 and 11/14 2024 9 am - 12 pm, CCAT 222 Pitkin St, East Hartford

Session One:

- Process Improvement Principles and Tools
 - The IPO (Input, Process, Outputs) Model
 - o Identifying the right "Goal" for your Process Improvement Effort
- Process Improvement Tools
 - Process Mapping Logic
 - Process Chart Symbols
 - Process Mapping Exercise

Session Two:

- Understand the Process Improvement Lessons of Goldratt's "Theory of Constraints
 - o The Goal Video
 - o Review the complications associated with a series "sequential" processes
 - o Identify a sequential set of processes in your workplace
 - o Quality Control
 - Eliminating Waste
 - Identifying the Bottlenecks
 - Elevating the Constraints
 - Moving QC forward in the Process
 - Sequencing and Batching Implications

Session Three:

- Practicing Process Improvement
 - Clarifying Roles/RACI Charting
- Capstone Event -The Facility Building Exercise (an active experiential exercise where participants practice the principles of "Process Improvement.")
 - Finding and eliminating process flaws and "bottlenecks"
 - o Summary



LIVE TRAININGS OFFERED BY CCAT

Digital Thread Lab Awareness Courses

Start your digital transformation. Discover the benefits of digital thread implementation. These awareness level training courses are aimed at anyone from the shop floor to the C-suite looking to learn about digital thread applications and workflows

Location: CCAT Pitkin St East Hartford, CT

Digital Thread Concepts & Value Proposition Next Gen Tech Data Packages & MBD

- Workflows Model-Based Engineering
- Model-Based Definition Digital Thread and MBD practices
- Developing MBD initiative and team
- MBD industry standards Modernizing product definition
- Ensuring the quality of source MBD
- Why source validation is important Process for characteristic accountability

Timing: 9:00am-12:00pm (Tuesdays)

Next Gen Tech Data Packages & MBD Workflows

- Role, use, and definition of TDP
- MIL STD 31000 for TDPs
- Common file formats used for TDPs
- Role and use of derivative files
- Creating derivative files
- Process for verifying derivative files
- Ensuring quality of MBD files
- Different or variant MBD workflows
- How MBD workflows affect the development process

Timing: 1:00pm -4:00pm (Tuesdays)

REVUP LIVE TRAININGS OFFERED BY CCAT

Maximizing Trade Show ROI

Trade shows can be an important sales & marketing tool. In this session we will discuss some effective approaches to help you achieve better returns on your investment of time & money. We will look at real world successful trade show efforts & why they produced results. Discuss trade show resources & how to best use them. Cover planning & targeting for success. Talk about the CRM and getting the most out of it. Plus have a discussion on rapid business development.

Who should attend: Sales, sales engineers & management professionals in manufacturing and Mfg. service who are tasked with driving sales revenue and acquiring new customers.

Instructor:

Michael Cappello, Founder of Capri Business Development. Michael's approach has resulted in hundreds of meetings being set in advance of the shows he attended resulting in millions of dollars in new closed business.

Date/Time:

December 13, 2024 9am-11am

Location:

Connecticut Center for Advanced Technology East Hartford CT



REVUP LIVE TRAININGS OFFERED AT CCAT

OSHA-Authorized 10-Hour General Industry Outreach Training Program

The 10-hour course is designed for safety steering committees, new safety managers, safety committee chairs, plant managers/supervisors and employees with safety oversight or responsibilities. The credential is recognized nationwide. Each course has a mix of mandatory/optional topic hours. The following matrix details the available course topics:

Торіс	Hours
Introduction to OSHA, General Duty Clause, Inspections, Citations & Penalties	1
Walking & Working Surfaces-Fall Protection	1.5
Fire Protection & Means of Egress	1
Hazardous Materials	1
Personal Protective Equipment	1
Permit-Required Confined Spaces	1
Lockout/Tagout	1
Electrical & Safety-Related Work Practices	1
Hazard Communications	1
Welding, Cutting & Brazing	1
Machine Guarding	1
Material Handling	1
Posting/Filing/Record Keeping	.5
Managing Safety and Health Programs	2

Other topics may include but are not limited to:

- Bloodborne Pathogens
- Powered Platforms, Man lifts and Vehicle Mounted Work Platforms
- Hearing Conservation
- Respiratory Protection
- Medical and First Aid

- Cranes, Hoists and Lifts
- Hand and Portable Powered Tools
- Ergonomics and Safe Lifting
- Safety and Health Program Management and Administration

Each participant receives a comprehensive course text . Upon completion, each participant receives a completion card for the Occupational Health and Administration, as well as a certificate from National Safety Services, LLC.

When: 12/18 and 12/20 10:00am-3:00pm

Where: CCAT Pitkin St East Hartford, CT



Frontline Leadership Training

Frontline Leadership Training is designed to enhance the competence of employees as they progress from primarily technical roles into supervisory and management positions. Multiple delivery modes will be used to enhance engagement: lecturettes, role plays, film analysis and case studies.

Timing/Program Length

5 layered modules to be taken in sequence 3 hours per session Next program Jan 2025 9 am - 12 pm, CCAT 222 Pitkin St, East Hartford

Training Modules

> Foundational Skills – Emotional Intelligence and Communication

These skills that are critical to exercising leadership in the workplace. Enhancing your ability to perceive others' emotions and communicate clearly, will enable more complex leadership skills such as Performance Management and Delegation.

> Performance Management and Effective Feedback

In this module we provide attendees with the ability to professionally critique someone's performance when that performance is not up to par. Delivering "effective" feedback is a critical component of any leader's job.

> Conflict Resolution and Negotiation

The third module will give participants the ability to manage disagreements and conflicts more effectively in the workplace. Participants will learn their own preferred modes of managing conflict and will learn to choose the best approach given the situation.

> Supervisory Leadership and Delegation

Participants attending Module 4 will learn to how to assess their employee's abilities and motivation, and then choose the appropriate leadership style for the situation.

> Team Dynamics and Team Leadership

The final module focuses upon the best ways to lead a team. Team dynamics and team dysfunctions will be fully explored.

Objective

Enhance the competence of employees as they progress from primarily technical roles into supervisory and management positions and give them the tools needed to succeed.

Instructor: Frank Irr is a Managing Senior Partner with AIM Consulting Associates who graduated from the U.S. Coast Guard Frank has coached & trained employees internationally at companies of all sizes from small locally owned shops to Fortune 100 firms

REY-UP; ONLINE TRAININGS OFFERED BY CCAT

	Self-Paced Training
Smart Manufacturing – Industrial Internet of Things	International Traffic in Arms Regulations – ITAR Training
This program is designed for those with some manufacturing experience and an affinity for and solid experience with computers and all things digital. The program is online based	ITR-1001 Introduction to International Traffic in Arms Regulations (ITAR)
utilizing the industry recognized Tooling University platform and requires the ability to work independently. Progress will be monitored and supported by CCAT.	The International Traffic in Arms Regulations (ITAR) is a set of U.S. laws that control the export of product and technical data
Ask the Mentor Students will be provided with access to a CCAT content mentor via email during the course. A specially provided email address will be active for this purpose during the program providing the opportunity to ask any questions that may arise about the course material and its application.	pertaining to military and defense-related technology. In this training, you will gain an understanding of United States arms export control regulations and why they were passed into law. You will also learn about common compliance violations and the penalties that can be incurred when arms regulations are breached.
	By the end of this course, you will be able to
Timing/ Program Length: <i>Participants can begin immediately.</i> Overall length – Six Weeks. Designed to fit into a work schedule.	Define International Traffic in Arms Regulations (ITAR)
Training modules are brief and self-paced.	Understand the purpose of ITAR compliance
	 Identify common ITAR compliance violations
Topics (Each area/module is about an hour in length):	• Describe the penalties for ITAR violations
Cybersecurity for Manufacturing Basics 101 Cybersecurity for Manufacturing: Malware Overview 102	
Introduction to the Industrial Internet of Things 111	Online: Estimated completion time (hours): 1
Data Collection Fundamentals 121	(Credit hour 0.1 / CEU 0.1)
Automatic Identification Technology 141	ITP 1002 Involution ITAD Compliance
Cybersecurity for Manufacturing: Hacking Overview 201	ITR-1003 Implementing ITAR Compliance
Cybersecurity for Manufacturing: Wireless Networks 202	It is up to each individual company to comply with the
Introduction to Digital Networks 221	International Traffic in Arms Regulations (ITAR). The ITAR
Data Collection: Inventory and Maintenance 231 Introduction to Digital Twin 241	guidelines recommend that organizations adopt a series of
ntroduction to Digital Thread 242	processes and procedures to ensure they comply with export
Introduction to Machine Learning and Artificial Intelligence 301	control policies and avoid violations. This training contains an
Machine Learning and Artificial Intelligence Applications 302	overview of the steps necessary to implement an effective ITAR compliance program within your company.
Course Objectives:	
Provides a solid grounding on key topics related to the industrial nternet of things & smart manufacturing for those aiding with	By the end of this course, you will be able to
the transition to these technologies or seeking an enhanced understanding of them.	•Understand the steps necessary to implement and maintain an ITAR compliance program
	Recognize the importance of management commitment
Frainee Skill Level:	 Determine ITAR jurisdiction and classification
Fraining runs to the intermediate level. Potential candidates	 Learn the requirements for record-keeping
should have strong computer skills.	 Understand the process for detecting, reporting, and disclosing violations
	 Learn the value of employee training
	Develop risk assessments and audits to monitor compliance
	Online: Estimated completion time (hours): 1

(Credit hour 0.1 / CEU 0.1)

REVUP ONLINE TRAININGS OFFERED BY CCAT

New Course on Materials Through ASM International

The International Professional Society for Materials



Mechanical Properties and Their Measurement

Almost every modern convenience relies, in some way, on the ability of metals and alloys to take on function and form and predictably maintain it over long periods of time under extreme operating conditions. The extent to which metals can be pushed, the limits of endurance under static and dynamic force loads, high-energy impacts, twisting, bending, and other applied stresses, is usually established by conducting standard mechanical tests that are described in detail in this course.

Students will learn – with the help of rich visuals, narrated animations, demonstration videos, and interactive quizzes – how to measure properties such as tensile strength, hardness, and impact resistance and what the tests reveal about material behavior and failure mechanisms, including fracture, creep, and fatigue. The course also includes information on ASTM test procedures and how they avoid measurement-induced errors stemming from metallurgical and microstructural changes.

ATTENDEES GAIN/DEEPEN UNDERSTANING OF:

- Stress, strain and stress-strain curves
- Tensile Testing
- Hardness Testing
- Impact Tests
- Creep Testing
- Fatigue Testing
- Grain Size

WHO SHOULD ENROLL:

- Design Engineers
- Operators
- Technicians
- Process Engineers
- QA Managers
- Product Development Specialists
- Sales and Purchasing Professionals





Cybersecurity for Manufacturing

This excellent curriculum developed by the highly regarded Cybersecurity Manufacturing Innovation Institute can provide your employees with a convenient, self-paced introduction to the threats, vulnerabilities, and available preventative measures for securing your organization.

Cyberattacks are growing more complex and sophisticated & organizations and their employees need to understand how to raise awareness across their company and take preventative measures.

Preventing cyber- attacks on our supply chain only works when everyone is a part of the solution.

Concise online, self-paced **e-learning** modules designed using CyManII's subject matter expertise and know-how on cybersecurity each module takes about 30 minutes. Available for immediate start

Program Modules & Objectives

Cybersecurity for Manufacturing Basics **101** *This course will help manufacturers and manufacturing personnel understand and identify basic cyber threats.*

Cybersecurity for Manufacturing: Malware Overview **102** After taking this course, users will be able to recognize malware threats and ways to defend against them.

Cybersecurity for Manufacturing: Hacking Overview **201** After taking this class, users will better understand the cyber threats posed by hackers as well as the tools and strategies to guard against these threats.

Cybersecurity for Manufacturing: Wireless Networks 202

After taking this course, users will understand a variety of wireless networking options and their general applications, the risks associated with these networks, and effective ways to make these networks more secure.

Cybersecurity: Tools and Methods 205

After taking this course, learners should understand common cybersecurity tools and standards for cybersecurity best practices. These resources allow organizations to safely participate in and benefit from advanced manufacturing technologies. In addition, they can minimize damage and aid in data recovery after a breach.

REVUP ONLINE TRAININGS OFFERED BY CCAT

Introduction to the Smart Supply Chain

This Tooling University based program introduces the different smart technologies that can be applied to and integrated with supply chains for more efficient supply chain management. The Industrial Internet of Things (IIoT) allows for the detailed collection, transmission, and analysis of data that can be used at nearly every stage of the supply chain to prevent errors, waste, and delays, as well as maintain high-quality materials handling and fleet management.

Automatic identification technologies, environmental sensors, robots, and artificial intelligence can be used to plan preventive maintenance, warehouse organization, and even retailers' orders. After taking this class, users will be able to identify key smart technologies and their use in and benefits for supply chains.

Prior training needed: None required

Format: Online/ Tooling University - SME Developed

Course length: 2 hours

Outline

- The Smart Supply Chain
- Smart Warehouses
- Smart Material Handling
- Smart Fleet Management
- Smart Supply Chain Customers and End-Users
- Smart Manufacturing and the IIoT
- Smart Manufacturing and Supply Chain Management
- Data on the Smart Supply Chain
- Devices for the Smart Supply Chain
- Review: Smart Supply Chain Delivery

Objectives

Provide information on best practices to prevent errors, waste and delays, as well as maintain highquality material handling & logistics, efficient warehouses and effective fleet management.

Suggested Background

Those with roles in logistics, warehouse management and operations

REY-UP ONLINE TRAININGS OFFERED BY CCAT



Your REV-UP employees can learn essential technical and professional skills on their own schedule. Select from a library of over 700 online competency-based courses. Choose from the topics and learning pathways below, developed by Connecticut's manufacturing community. Or reach out and we'll work with you to customize your own training plan. Contact <u>Eileen Candels</u> for more information or to register.

Health & Safety	Introduction to OSHA Making Work a Safer Place Help! What to Do in an Emergency Personal Protective Equipment Eye and Face Protection Work Area Safety Hazardous Materials Lockout/Tagout Fire Extinguishers	SAF-1001 SAF-1002 SAF-1003 SAF-1004 SAF-1005 SAF-1016 SAF-1012 SAF-1021 SAF-1023
Additive Manufacturing	Introduction to 3D Metal Printing Introduction to Powder Bed Fusion Introduction to Binder Jetting Introduction to Directed Energy Deposition Introduction to Bound Powder Extrusion 3D Metal Printing Safety	ADM-1002 ADM -1003 ADM -1004 ADM -1005 ADM -1006 ADM -1007
Non-Destructive Examination	Standard Inspection Techniques Visual Testing Equipment Visual Testing of Castings Visual Testing of Welds Materials Metals Manufacturing and Processes Testing of Material Properties	NDE-3006 NDE-3007 NDE -3010 NDE-3012 NDE-3039 NDE-3040 NDE-3041



Logistics for Manufacturing	Introduction to Logistics Logistics Technology Inventory Distribution and Transportation Safety, Quality, and the Environment in Logistics Successful Logistics	LOG-1001 LOG-1002 LOG-1003 LOG-1004 LOG-1005 LOG-1006
Technical Documents	Schematics & Prints Engineering Drawing Terminology Engineering Drawing Views Engineering Drawing Lines Dimensions and Tolerances Threads and Fasteners	DWG-1001 DWG-1002 DWG-1003 DWG-1004 DWG-1005 DWG-2003
Customer Service For Manufacturing	Focusing on Your Customers Providing Friendly, Courteous, and Efficient Service Communicating Effectively with Customers Identifying and Meeting Customer Needs Building Customer Relationships Advanced Customer Service Respecting Diversity in Your Customers Better Serving Customers with Disabilities Dealing with Difficult Customers Responding to Customer Complaints Managing Conflict with Internal Customers	CUS-1001 CUS-1002 CUS-1003 CUS-1004 CUS-1005 CUS-1006 CUS-1007 CUS-1008 CUS-1009 CUS-1010

* These learning pathways are created to help Connecticut employers create, grow, and retain their workforce.

Additional 180 Skills Online Courses

There are hundreds of 180 Skills Online courses to choose from. Contact us to learn about the options that would work best for your REV-UP employees. Contact <u>Eileen Candels</u> to for more information or to register.

A sample of other skill building courses

- Understanding Conflict
- Project Management
- Diversity Equity and Inclusion
- Communicating with Others

Some intermediate and advanced skills courses & programs

- 3D Printing
- Quality Management
- Composites
- CNC Machining Milling
- Non-Destructive Examination
- Maintenance Electrical

- Working as a Team
- Spreadsheets
- Personal Finances
- Shop Math Skills
- Advanced Manufacturing
- Maintenance Pneumatics
- Maintenance PLC
- Automation
- Statistical Process Control
- Robotics