DFT Master Training Guide

Manufacturing Excellence

Welcome to DFT Digital Training

We are proud to partner with you and support your manufacturing leadership goals. We understand the demands of the global economy and look forward to working together to meet the competitive challenges. The benefits of a Demand-Driven DFT Business Strategy are tremendous but they are dependent upon leadership with a consistent and trained support team.

We are committed to providing you the unique opportunity to consistently train, and re-train, your team members on your schedule, at your sites without travel expenses. We are here to support you with video conferencing tools. Team DFT can attend your meetings, design reviews and answer questions without a single travel expense. If you need a consultant on-site, we can also provide that support at the associated.

Thank you for the opportunity, we look forward to a mutually rewarding and successful partnership.

Sincerely,

John R. Costanza

President

Table of Contents

About JCIT 2

Mr. Costanza founded the John Costanza Institute of Technology in 1984 with the mission, "To provide the tools and techniques of Demand Flow Technology (DFT) to manufacturing corporations to lead their global competitiveness". Under Mr. Costanza's leadership, with 82,000 graduate students, from 3,200 companies in 51 countries, the company was recognized as one of Colorado's fastest growing companies with fourteen consecutive years of over 40% averaged annual growth per year.
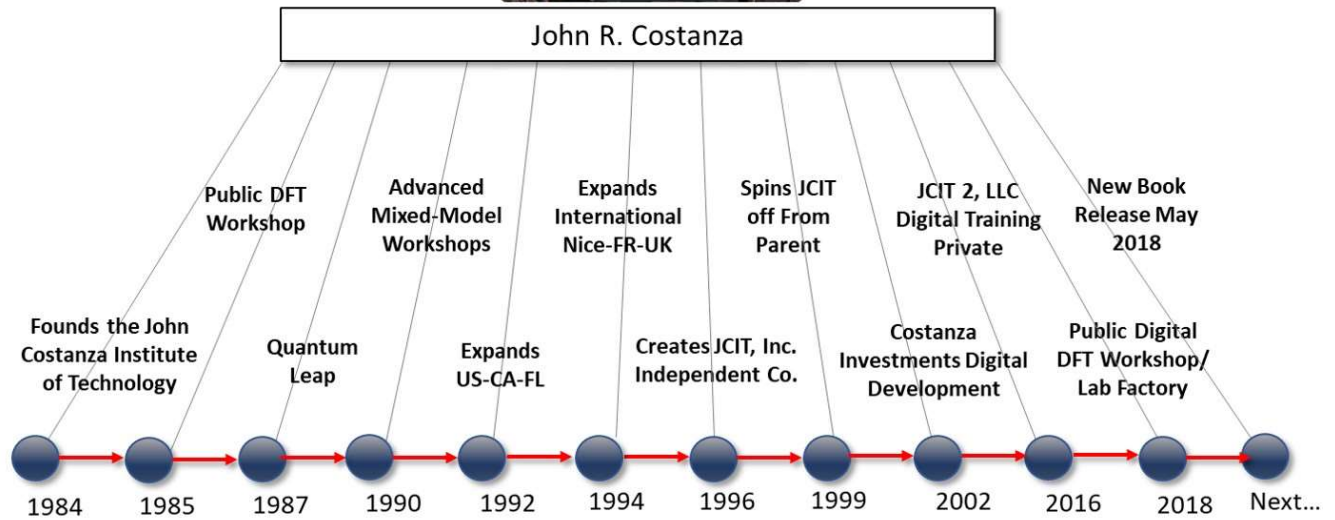
Having taught at several universities, Mr. Costanza noticed a transition emerging in live digital education. He predicted that in person training would eventually go the way of the 8 Track Tapes and Taxi Cab companies. Although the digital capability was not yet developed, he was passionate about assisting in digital training development and excited about the future of digital workshops with "live" Q&A.

Today the broadband technology has advanced, as Mr. Costanza predicted. And after years of research and development, JCIT 2 has been rapidly growing by delivering digital manufacturing education products with "live" Q&A as well as digital consulting. With an impressive support team of the best in their fields, JCIT 2 is again positioned as the leader in DFT training and consulting. No other company can come close to teaching the powerful DFT Business Strategy which far surpasses the philosophical Waste Elimination, Continuous Improvement, Lean, Agile...etc.

The Next Generation of Digital DFT Training and Consulting

John R. Costanza

Public DFT Workshop — 1985
Advanced Mixed-Model Workshops — 1990
Expands International Nice-FR-UK — 1994
Spins JCIT off From Parent — 1999
JCIT 2, LLC Digital Training Private — 2016
New Book Release May 2018 — 2018

Founds the John Costanza Institute of Technology — 1984
Quantum Leap — 1987
Expands US-CA-FL — 1992
Creates JCIT, Inc. Independent Co. — 1996
Costanza Investments Digital Development — 2002
Public Digital DFT Workshop/ Lab Factory — 2018

1984 1985 1987 1990 1992 1994 1996 1999 2002 2016 2018 Next...

Leader in The New Generation of Digital Training

- Flexible Sessions
- Corporate License
- Private Training

Implement Technology…Discuss Philosophy

JCIT 2 President, John R. Costanza

- Creator of Demand Flow Technology (DFT) the foundation for a company-wide business strategy.
- Author of the internationally best-selling book "The Quantum Leap…In Speed-To-Market;" Mr. Costanza's textbook has received international recognition and has been translated into five languages. In addition, Mr. Costanza has published numerous patents related to DFT, Demand Planning & Mixed-Model Flow.
- Nominee for the Nobel Prize in Economic Sciences.
- Recipient of the Odyssey of the Mind Creativity Person of The Year Award.
- Awarded the "Hero of Manufacturing" by Fortune Magazine. Featured in many publications including Forbes, Fortune, Manufacturing Systems, Production, CEO, Industry Week and Colorado Business. Featured on ABC World News.
- Founder of the John Costanza Institute of Technology, JCIT, JCIT2, and the international Worldwide Flow Colleges. Trained over 82,000 from 3,200 companies in 51 countries.
- Under Mr. Costanza's leadership, the John Costanza Institute of Technology averaged over 40% growth for 14 consecutive years. He chose to spin off the JCIT subsidiary to form JCIT 2, under the parent corporation. With JCIT 2, Mr. Costanza created the next generation, of Digital, DFT Training and Digital Consulting.
- Designed and delivered the 1st customizable, DFT training program that can be focused to each level of the organization or knowledge base.
- International keynote and boardroom speaker around the world.

DFT Training for All Employees

FUNCTIONAL ORGANIZATIONS	Upper Management	Product/Process Team	Department Managers	Production	Employee Relations	Sales / Marketing	Mfg. Engineering	Design Engineering	Production Control	Materials / Stores	Supply Chain Procure.	Quality	Finance	MIS
Chapter 1 DFT Strategic Business Response	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Chapter 2 Line Design	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Chapter 3 The Flexible Workforce	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Chapter 4 Kanban Materials Management		●	●	●			●	●	●	●	●	●	●	●
Chapter 5 The Engineering Bill of Material		●	●				●	●	●	●	●	●	●	●
Chapter 6 Demand Based Management		●	●			●	●		●	●	●	●	●	●
Chapter 7 DFT Supply Chain Strategies		●	●						●	●	●	●	●	●
Chapter 8 Advanced Mixed-Modeling		●	●				●		●					●
Chapter 9 DFT Flexible & Self-Directed Workforce	●	●	●	●	●								●	●
Chapter 10 Flow Based Costing	●	●	●										●	●
Chapter 11 DFT Support Systems	●	●	●										●	●

- Select sessions and chapters to meet your training objectives and audience.
- Stop and re-start training at your convenience.

3-Day Workshop Timing
Day 1: Chapter 1 - DFT Strategic Business Response
Day 1: Chapter 2 - Total Product Cycle Time and Line Design
Day 1: Chapter 3 - Self Directed and Flexible Workforce
Day 2: Chapter 4 - Materials Kanban Demand Pull
Day 2: Chapter 5 - Engineering DFT Bill of Material
Day 2: Chapter 6 - Demand Based Management
Day 2: Chapter 7 - DFT Supply Chain Strategies
Day 3: Chapter 8 - DFT Advanced Mixed-Model & Machine Cells
Day 3: Chapter 9 - Flexible Employee Reward System
Day 3: Chapter 10 - Flow Based Costing
Day 3: Chapter 11 - Managing the DFT Company and Support Systems

Role of the Client Workshop Coordinator

The DFT workshop is web based and it is conducted from the JCIT 2 website. The Workshop Coordinator is the contact person at the client's location to ensure the training facility and equipment are ready for the workshop.

Workshop Coordinator responsibilities include:

- Schedule the workshop with JCIT 2, with or without live Questions and Answers.
- Prior to each training session, test the web links for the training, as well as the Q&A video, microphone and sound system.
- Confirm that the product is set up for each physical lab exercise.
- Start and stop the video lecture. The video lecture should be paused for Q&A, as well as for the physical labs. After the physical portion of the lab is completed, the workshop coordinator will start the lecture video and the instructor will review all the answers to the questions.
- Confirm that all students have a student workbook, textbook and certificate.
- Ensure there is no recording of the JCIT 2 training and that only company employees are present.

Client Training Log-In Access

Logging in for the Initial Workshop

- The workshop coordinator will initiate workshop training sessions. Initial log-ins will be conducted via video conference with a JCIT 2 team member. These initial training walk-throughs are scheduled one week in advance of the workshop. All computer, TV or projectors as well as the video conferencing equipment must be setup and working prior to training walk-throughs. The equipment used for the walk-through must be the same equipment, and at the location, that will be used for the actual workshop.

  Initial logins will register their training computer IP address and they are then setup with that computer address for that sites future workshop. For Corporate Clients, the site license logins register the one training IP address, with the JCIT 2 computers. This IP address is used for the training workshops for that site.

Client Access Page

- A company specific username, as well as two passwords, will be issued to the workshop coordinator.
- To access training workshops, select the Client Access Page from the right side of the main screen/Home screen menu. After selecting the Client Access Page, the 1st security screen, "Guest Area" will prompt you for your 1st password. Enter your case sensitive password and click the GO box. You will then move to a screen to select your company specific ID box. Multi-divisional sites are under the company specific ID box. After your company ID selection, you will be taken to a 2nd security screen, "Guest Area" where you will enter your 2nd password, and click the GO box. You will now be taken to your company training page.
- Student Workbooks will be shipped prior to the workshop. For corporate clients, additional workbooks may be purchased.

Workshop Hardware and Video Requirements

Workshop Hardware Requirements

- Workshops are best conducted on full sized projector screens. If you choose to use a TV, 65" Television screens with **separate sound bars systems** are a minimum. Students should never have a problem seeing the graphics or hearing the presentation.
- High speed computers, preferably I7 processors, running Windows 10 with Internet Explorer, Google Chrome, or Firefox browsers are preferred. Computers and Internet equipment capable of streaming a Netflix application or comparable video movies are acceptable.
- Connectivity is required between the computer and television, i.e. HDMI, or a smart television with internet connectivity.

Question and Answer Hardware Recommendations

- The same computer can be used for the "Live" question & answer videoconferencing.
- It is essential to have an external microphone and camera, such as a Logitech Pro web camera/microphone. It must be focused on the students.
- As an option, video conferencing microphones with an 8-foot range for the students are also acceptable for "Live" Q & A.

Workshop Laptop for Lab Calculations

- We recommend that there be a laptop available for the students to use the DFT App program provided by JCIT 2 for the workshop lab exercises.
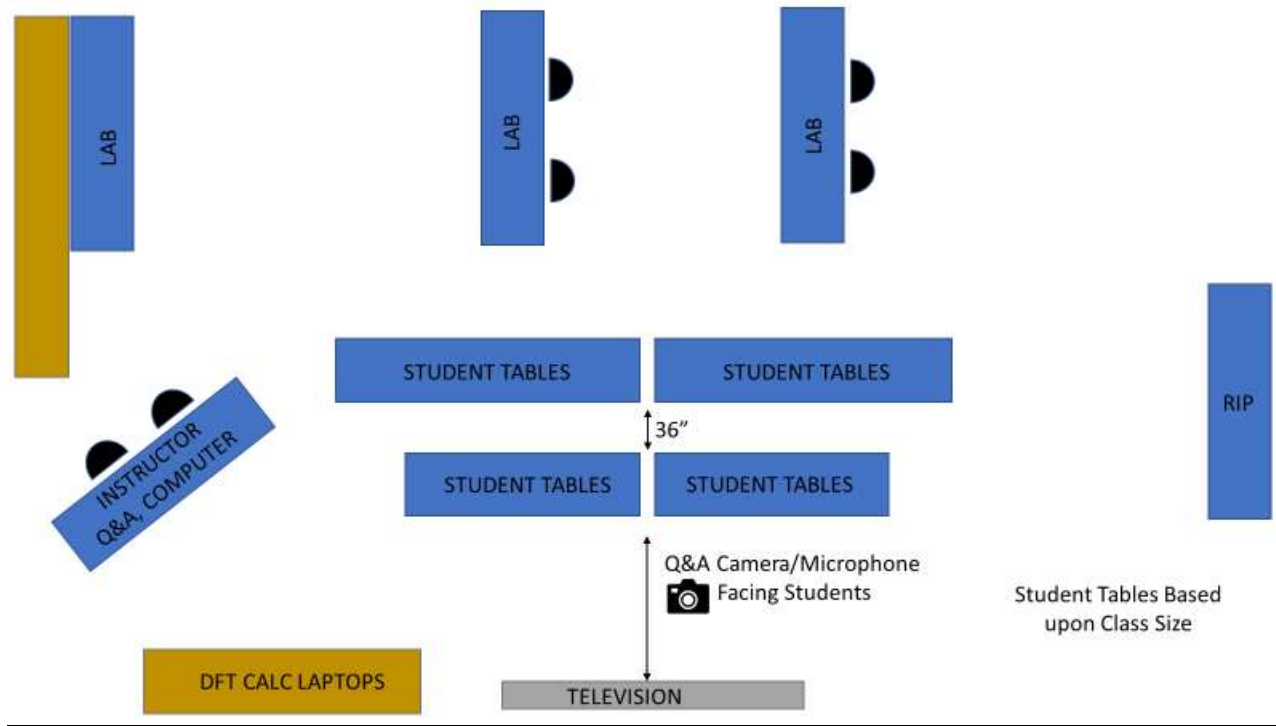
Internet Connection Speed Recommendations

Below are the Internet download speed recommendations per stream for playing JCIT 2 Sessions from www.jcit2.com.

- 80.0 Megabits per second – Minimum requirement for HD quality
- 100 Megabits per second – Recommended for Ultra HD quality

HD video quality requires an HD capable TV.

Layout for the Classroom and Lab Exercises

LAB

LAB

LAB

STUDENT TABLES | STUDENT TABLES

36"

STUDENT TABLES | STUDENT TABLES

RIP

INSTRUCTOR Q&A, COMPUTER

Q&A Camera/Microphone
Facing Students

Student Tables Based
upon Class Size

DFT CALC LAPTOPS

TELEVISION

Product for Lab Exercises

The DFT training exercises are extremely important for all companies. They are critical for companies that are making the transition to DFT, and for new employees. The Session One and Session Two training exercises are essential for all workshops to set the foundation for all other labs and workshops. The Session Three lab is important for the Demand-Driven company. The Session Four training lab exercise is critical for all management and supervisory employees.

JCIT 2 lab products have been developed and they are used in all public and private workshop exercises. The times used in the exercises are weighted from other workshops and used in the designed answers. They also become a basis for the following exercises to build upon. As an example, the DFT Op Sheets and Kanban pull chains are developed from the operations designed in earlier Takt time exercises. DBM daily rates and staffing in session four is based upon previous student lab exercises.

If you wish to use your own internal products for Corporate Licensed Clients, the following guidelines should be applied:

- Remember, we are teaching the student to understand and experience the DFT Business Strategy and how the techniques tie everyone together into a powerful team, not how to build a product.
- We typically allow one hour for the written and physical lab exercises to be completed and 5-10 minutes per team, for the teams to present their results to the rest of the class.

DFT Workshop Lab Exercises

In all cases, it is critical to complete workshop exercises for all sessions. They ensure a focused student and lead to the highest level of information retention. Workshop exercises are included in the Student Workbooks.

The answers are reviewed by the digital instructor at the end of each lab exercise. The **workshop coordinator** will stop the workshop video when Mr. Costanza finishes the questions and explains the notes for each exercise.

To ensure that students are honored with their graduation diploma, send the passing student's information to Support@JCIT2.com and a team member will mail a graduation diploma for the course.