

Syllabus

Quality Assurance for Canadian Aviation Certificate Holders

7 Hours

Meeting called by: Your Agency/Company
Type of meeting: Class room style, non certification training class
Facilitator: DTI Training Consortium Primary Instructor
B.A./Certified Government Instructor/Minimum 300 hrs experience.
ASQ Certified Engineer/Manager. Transport Canada Approved Instructor.

Attendees: Canadian Aviation certificate holders who are required to meet the Safety Management System Requirements for a Quality Assurance Program.

Please read: This is a basic course, requiring participation in, analysis , implementation, and maintenance of a Quality Assurance Program to meet Transport Canada's SMS Regulation.

Please bring: Pen, pencil, hi-lighter etc.
Reference Manuals and Materials, **are provided by DTI Training**

Agenda Topics

Introduction

Seminar Times and Breaks

What is Quality?

Why are you here?

Transport Canada and the QA mandate

Under the Safety Management System.

Assessment vs. Audit

The cost of implementation

The Commitment for a Quality Program

The Benefits of a Quality Assurance Program

Goals and Objectives

To educate and understand the Aspects of a good Quality Assurance Program

To communicate the importance of establishing a good QA program. To show how to implement a QA program To show the advantages of a good QA program

Brief History of Quality Assurance

Guilds and Unions

Industrial Revolution

WWI

WWII

Dr. Walter Shewhart

Dr. Edwards Deming

Japan and American Response

ISO 9000

Six Sigma Quality

Kaizen Quality

Quality Today

LESSON 1: Definitions

Quality Assurance

Quality Control

QAP

Continuous Improvement

Process

Process Flow

Statistical Process Control

Control Charts

Corrective Action

Root cause

Statistical Sampling

LESSON 2: Processes

Lesson of the “F”s

The Philosophies of Dr. Edwards Deming

Video: “The Red Bead Experiment”

Discussion of the Red Bead Experiment

Video: “Lessons learned from the Red Beads.”

Process Flowing

Process Flowing Practical Exercises

LESSON 3: Audit Checklists

Checklist interactions

Configuration Management

Audit Checklist Writing: Practical Exercise

LESSON 4: Process Control

(and some tools to accomplish this)

What is Process Control

Introduction to Statistics

The Normal Distribution Curve

The “Quincunx” Machine

Statistical Process Control

Process Model

Measures of Central Tendency

Measures of Dispersion

Standard Deviation

How to create the Control Chart

What control charts do

Attribute vs. Variable Charts

Analysis of Control Charts

Process Improvement

LESSON 5: Corrective Action

The “Cause and Effect Diagram”

Fishbone Diagram : Practical Exercise

LESSON 6: “The Quality Culture”

The ISO9000 generation

Best practices in Quality Assurance

Due Diligence

WORKSHOPS and GROUP EXERCISES

Course Questions

Course Critique

Course Conclusion

Special notes:

This course is comprehensive and includes a number of exercises designed to lead the student to conclusions on the implementation of a good Quality Assurance Program. These exercises will include problem identification, problem solving and the communication skills needed to operate under Quality Assurance requirements of the Transport Canada SMS Regulation.