INCOSE Systems Engineering Quality Management Working Group (SEQM) Quality Management Institute (QMI) Professional Development Course and Certification

Schedule - Cohort 4 (September 2023 – March 2024)

Discussion Sessions (optional), Tuesday Afternoons, 3:30pm,US Eastern Time (schedule subject to change if group agrees)

Facilitators:

Larry Kennedy, PhD, CEO of Quality Management Institute

Barclay Brown, PhD, ESEP, INCOSE CIO, Chair of Systems Engineering Quality Management Working Group

Bill Scheible, ESEP, CISSP, Co-Chair of Systems Engineering Quality Management Working Group Hazel Woodcock, ESEP, Chief Systems Engineer, Costain Group PLC

TO REGISTER: Email barclay.brown@incose.net with your name and INCOSE member number.

Course Infrastructure:

INCOSE Private Cohort Yammer Community; free account provided

Discussion sessions are not recorded and are an optional part of the course. Primary course content is delivered through a self-paced online learning system.

Course is open to current INCOSE members, who are members of the Systems Engineering Quality Management Working Group. New working group members are always welcome.

Date	Activity
Independent Learning Activities Time: 30 minutes	 Getting Started Quality Manager Series Introduction (Video): 6 min Getting Started Larry Kennedy (Video): 3 min Syllabus for Certified Quality Manager Part 1: QM Leadership Essentials (Reading): 10 min
Session 1: 5-September-2023 2:30-3:30 pm ET	Team Session: Welcome, Introductions, Expectations Curriculum Overview and Certification Requirements Introduction to Part 1, Module 1: Zero Defects Attitude Q and A
Independent Learning Activities Time: 6-8 hours	Part 1: Creating a High-Performing QM Work Culture Module 1: The Zero Defects Attitude Lesson 1.1 Introduction to the Zero Defects Attitude

	 Video: 18 min Lesson 1.2 Quality Management and Leadership Reading: 4 pages Video: 9 min + exam Video: 5 min + exam Lesson 1.3 Quality Management Methods Reading: 18 pages Video: 13 min + exam Lesson 1.4 Quality Management Values Reading: 19 pages Video: 13 min + exam Lesson 1.5 Quality Management and Reasonable Discussions Video: 10 min + exam Video: 12 min + exam Lesson 1.6 Quality Management and Profitability Reading: 4 pages Video: 9 min + exam Video: 6 min + exam Graded Exam
Session 2: 19-September-2023 2:30- 3:30 pm ET	Team Session: Review of Module 1 Q and A with Application Introduction to Part 1, Module 2
Independent Learning Activities Time: 4-6 hours	Part 1: Creating a High-Performing QM Work Culture Module 2: Vocational Certainty • Lesson 2.1 Introduction to Vocational Certainty • Video: 25 min • Lesson 2.2 Make Sure of Your Calling and Vision (2 parts) • Reading: 15 pages • Video: 8 min + exam • Reading: 22 pages • Video: 8 min + exam • Lesson 2.3 Commitment to Personal Excellence • Video: 11 min + exam • Lesson 2.4 Press Towards Continuous Improvement • Reading: 19 pages • Video: 23 min + exam • Lesson 2.5 Measure Your Performance Accurately • Video: 13 min + exam • Graded Exam
Session 3: 03-October-2023	Team Session: • Review of Module 2

2:30-3:30 pm ET	 Q and A with Application Introduction to Module 6
Independent Learning Activities Time: 5-6 hours	Part 1: Creating a High-Performing QM Work Culture Module 6: Personal Authenticity
Time. 5-6 nours	 Lesson 6.1 Introduction Video: 16 min Lesson 6.2 Embrace the Obligations of Leadership Reading: 12 pages Video: 24 min + exam Lesson 6.3 Be Diligent to Make Good Decisions (2 parts) Video: 24 min + exam Video: 11 min + exam Video: 5 min + exam Lesson 6.4 Subject Yourself to Reality Checks Video: 19 min + exam Graded Exam
Session 4: 17-October-2023 2:30-3:30 pm ET	Team Session: Review of Module 6 Q and A with Application Introduction to Module 7
Independent Learning Activities Time: 3-4 hours	Part 1 Creating a High-Performing QM Work Culture Module 7: Ethical Dependability • Lesson 7.1 Introduction • Video: 14 min • Lesson 7.2 Communicate with Intellectual Integrity • Reading: 12 pages • Video: 20 min + exam • Lesson 7.3 Demonstrate Task Faithfulness • Video: 16 min + exam • Lesson 7.4 Acquire a Disciplined and Prudent Life • Reading: 20 pages • Video: 11 min + exam • Graded Exam
Session 5: 31-October-2023 2:30-3:30 pm ET	 Team Session: Review of Module 7 & Reflections on Part 1 implications for systems engineering profession Q and A with Application Introduction to Part 2: Risk-Based QM and Process Monitoring Competencies
Independent	Part 2 Risk-Based QM and Process Monitoring Competencies

Learning Activities Time: 5-6 hours	 Lesson 3.1: Introduction Video: 17 min Lesson 3.2 Organize Ideas into Work Processes Reading: 4 pages Reading: 18 pages Video: 10 min + exam Lesson 3.2 WPA Step 1 Reading: 17 pages Video: 28 min + exam Lesson 3.2 WPA Step 2 Video: 21 min + exam
	Graded Exam
Session 6: 14-November-2023 2:30-3:30 pm ET	Team Session: Review of Module 3 WPA Steps 1 and 2 Q and A with Application Introduction to Module 3: WPA Steps 3 - 5
Independent Learning Activities Time: 3-4 hours	Part 2 Risk-Based QM and Process Monitoring Competencies Module 3: Process Quality and WPA Introduction (Steps 3 - 5) • Lesson 3.3 WPA Step 3 • Video: 27 min + exam • Video: 8 min + exam • Lesson 3.4 WPA Step 4 • Video: 19 min + exam • Lesson 3.5 WPA Step 5 • Video 7.5 min + exam • Graded Exam
Session 7: 28-November-2023 2:30-3:30 pm ET	Team Session: Review of Module 3 WPA Steps 3 - 5 Q and A with Application Review of Project Demonstrating Excellence (PDE) requirements and schedule Introduction to Module 4: Administrative Consistency
Independent Learning Activities Time: 6-8 hours	Part 2 Risk-Based QM and Process Monitoring Competencies Module 4: Administrative Consistency • Lesson 4.1: Introduction • Video: 1 min • Reading: 12 pages • Reading: 22 pages • Video: 20 min + exam

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	 Lesson 4.2: Establish Effective Communications Video: 20 min + exam Lesson 4.3: Perform Each Task with Due Diligence Video 24 min + exam Video: 5 min + exam Lesson 4.4: Monitor Every Process for Defects Video: 20 min + exam Video: 12 min + exam Lesson 4.5: Master the Art of Delegating Responsibility Video: 23 min + exam Lesson 4.6: Managing Time and Information Wisely Video: 25 min + exam Graded Exam
Session 8:	Team Session:
12-December-2023	Review of Module 4
2:30-3:30 pm ET	Q and A with Application
	Introduction to Module 5: Executive Credibility and Module 8: Creating
	a QM-KTP Work Culture
Independent Learning Activities Time: 4-6 hours	Part 2 Risk-Based QM and Process Monitoring Competencies Module 5: Executive Credibility
	 Lesson 5.1: Introduction Video: 1.5 min Reading: 12 pages Lesson 5.2: Hold People Reasonably Accountable Video: 15 min + exam Lesson 5.3: Remain Honorable Under Pressure Video: 17 min + exam Lesson 5.4: Discern and Pursue the Just Cause Video: 15 min + exam Lesson 5.5: Care About People Video: 11 min + exam Graded Exam
	Module 8: Creating a Quality Management - Keeping the Promise Work Culture
	 Lesson 8.1: Introduction Video: 1.5 min Reading: 5 pages Reading: 16 pages
	 Lesson 8.2: A MAP for Revitalizing Your Work Culture Video: 19 min + exam
	Graded Exam
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Session 9: 09-January-2024 2:30-3:30 pm ET	Team Session Review of Module 5 and 8 Q and A + cohort reflections Project Demonstrating Excellence expectations and schedule Sharing your PDE
Independent Learning Activities Time: 3 months	Project Demonstrating Excellence Work Process Analysis independent project work PDE Instructions found here in course modules: Part 2 Risk-Based QM and Process Monitoring Competencies / Admin-Library Course Resources / 4. Graded Project Demonstrating Excellence

PDE Development Due Dates

Date	Deliverable
23-Jan-2024	Step 1 drafted, including initial high-level full process, errors and KPIs drafted.
06-Feb-2024	Research for Step 2 complete; process, errors and KPIs refined with relevant team/s and research field notes maintained.
20-Feb-2024	Costs calculated for Step 3; supporting research documents maintained.
05-Mar-2024	Course of action determined for Step 4; field notes maintained Update resume if needed
19-Mar-2024	Process implemented for Step 5; field notes and supporting documents maintained.
02-Apr-2024	Executive Summary written KPIs and errors identified and described All supporting documents collected into a PDF
PDE DUE 16-Apr-2024	All documentation sent to QMI including your name and QMI userID to support@QMnation.com using the following file names: • PDE1 ExecSummary-YourLastName-YourFirstName-YourUserID • PDE2 SupportingDocs-YourLastName-YourFirstName-YourUserID • PDE3 CV-Resume-YourLastName-YourFirstName-YourUserID
	Presentations: • To SEQM Working Group full meeting session