7Epsilon for ISO 9001:2015

One day course for foundry industry

Foundries can privately request the following one day on-site course. p-matrix Ltd also conducts this course with the help of local foundry trade associations, at significantly lower costs, in order to stimulate a cultural change within foundry industry. Please contact your local foundry trade association if you would like to attend this course in your country.

Course Organizers

American Foundry Society – Central New York Chapter (AFS-CNY),
North American Die Casting Association (NADCA) and
Society of Mechanical Engineers (SME)

Course Instructors

Dr Rajesh Ransing, 7Epsilon Pioneer (www.7epsilon.org).

Who Should Attend

Plant Managers, Quality Managers, Process Engineers, Metallurgists, Supervisors and Operators from either ISO9001:2008 certified foundries or foundries who wish to acquire ISO9001:2015 certification.
Participants need to bring their laptop to perform a study.

Learning Outcomes

After completing the course, the participants will be able to:

- Visualize various foundry scenarios to reuse in-process data and discover new in-process quality improvement opportunities.
- Learn 7Epsilon's 7Steps (ERADICATE) that refine Six Sigma's Measure, Analyze, Improve and Control steps.
- Embed risk based thinking and build a repository of organizational knowledge within your foundry
- Use in-process data and product specific process knowledge for hypothesis generation, corrective action plans and participate in 7Epsilon Quality Control Meetings for effective root cause analysis.
- Demonstrate how 7Epsilon continual process improvement projects satisfy various requirements of ISO 9001:2015 quality standard

Course Contents

Time	Title
8:00am – 8:30am:	**Registration and Tea/Coffee**
8:30am – 9:30am:	Presentation: Key changes in ISO 9001:2015 - Risk based thinking, organizational knowledge, management review and 7 steps of 7Epsilon with potential foundry applications
9:30am – 10:30am:	Exercise 1: Define an in-process quality improvement project, Establish and Refine process knowledge, [x's], [y's] and [y = f(x's)], Discussion on sampling rates and traceability
10:30am – 10:45am:	**Tea/Coffee Break**
10:45am – 11:15am:	Presentation: Sampling rates, traceability and linking factor data to process response data
11:15am - 12:30pm:	Presentation and Exercise 2: Risk, uncertainty and expected results: How to quantify deviation from expected results with penalty values
12:30pm - 1:15pm:	**Lunch**
1:15pm – 1:45pm:	Exercise 3: Convert sample in-process data suitable for analysis (participants may use their own case study)
1:45pm – 2:45pm:	Presentation: Generate possible solutions or new potential opportunities for continual improvement by discovering trends and indicators in the organization's in-process data
2:45pm - 3:00pm:	**Tea/Coffee Break**
3:00pm – 3:45pm:	Exercise 4: Interpret sample results (or participant's case study results)
3:45pm - 4:15pm:	Presentation and Q&A: How to build a 7Epsilon organizational knowledge repository to create evidence on the effectiveness of actions taken to address risks and opportunities
4:15pm – 4:45pm:	Participant's feedback, certificates and group photograph

- Visit www.7Epsilon.org

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AFS
CENTRAL NEW YORK CHAPTER

NADCA
NORTH AMERICAN DIE CASTING ASSOCIATION
Chapter 9