

# INTRODUCTION TO CQI-9 SPECIAL PROCESS: HEAT TREAT SYSTEM ASSESSMENT (HTSA)

## AGENDA

### DAY 1:

TIME	AGENDA
9.00am – 10.30am	Course Introduction Introduction to CQI 9 Special Process: Heat Treat System Assessment (htsa) - General, term and definitions, Integrating new inspection devices between revision of CQI 9, Process approach, Heat treat system assessment goals, Assessment process, Use of CQI 9, HTSA, and process tables, Assessor qualifications
10.30am – 10.45am	<b>Break</b>
10.45am – 1.00pm	Scope - General, Application (Process table A to I), Reference The Heat Treat System Assessment Procedure - Instructions for completion the cover sheet, Instructions for completion section 1-3, Section 1 Management responsibility & quality planning (Q1.1 Q1.20)
1.00pm – 2.00pm	<b>Lunch</b>
2.00pm – 3.15pm	Section 2 Floor and material handling responsibility (Q2.1 Q2.16)
3.15pm – 3.30pm	<b>Break</b>
3.30pm – 5.00pm	Section 3 Equipment (Q3.1 Q3.20) Discussion, Q&A session
5.00pm	End Class

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### DAY 2:

TIME	AGENDA
9.00am – 10.30am	Section 3 Equipment -P3.1 Thermocouples -P3.2 Instrumentation -P3.3 System Accuracy Test (SAT) -P3.4 Temperature Uniformity Survey (TUS)
10.30am – 10.45am	<b>Break</b>
10.45am – 1.00pm	Section 4 Job Audit (4.1 to 4.17) Process Table A - Carburizing / Carbonitriding / Carbon Restoration / Hardening / Austempering / Martempering / Tempering / Precipitation Hardening Aging Process Table B - Nitriding (Gas) and Ferritic Nitrocarburizing (Gas or Salt) Process Table C - Aluminum Heat Treating Process Table D - Induction Heat Treating
1.00pm – 2.00pm	<b>Lunch</b>
2.00pm – 3.15pm	Process Table E - Annealing / Normalizing / Stress Relieving Process Table F - Low Pressure Processing (Carburizing / Carbonitriding / Neutral Hardening) Process Table G - Sinter Hardening
3.15pm – 3.30pm	<b>Break</b>
3.30pm – 5.00pm	Process Table H - Ion Nitriding Process Table I - Hot Stamping
5.00pm	End Class