Advanced PoDFA Metallographic Analysis Training Course

Duration: **3 Days**

Program

Who should attend?

- A PoDFA licensed metallographer with a minimum experience of one year in PoDFA metallographic analysis.

Training objectives:

At the end of the training course, attendees will be able to:

- Assure accurate counting in mm^2/kg based on references
- Review specific characteristics of inclusions to be able to correctly recognize each type of inclusion
- Solve sample preparation problems (mounting, polishing,…).

Location

ABB Bomem's main office and manufacturing site in Quebec City, Canada

- Click here to access a road map to our facility from the Quebec Airport (Jean-Lesage Airport).
- Click here to access tourist information sites.

Date

- To be determined upon demand.

*Approximately three training sessions are given every year.

Schedule

DAY 1	**Introduction** **Sample preparation** **Inclusion Identification**	♦ Welcoming remarks and guided tour of ABB Bomem Inc. ♦ Filter certification and crucible preparation (optional) ♦ PoDFA-f and Prefil presentations (optional) ♦ PoDFA Standard Practice Instructions (SPI) - Receiving, Cutting and Mounting specimens (optional) - 20 μm rule (review) ♦ Survey of Inclusions - Description of each type of inclusion (origin, characteristics, aspect, size range,…) ♦ Inclusion recognition (under microscope, review specific characteristics of inclusions to be able to recognize each type of inclusion through their shape, color and size).
DAY 2	**Inclusion Identification and Counting**	♦ Counting Recalibration - Adjustment with “standard samples” at 50X (GRID and ESTIMATE method), 100X and 200X. - Metallographic analysis of samples brought by attendees - Comparison and discussion about the results.
DAY 3	**Inclusion Identification and Counting** **Conclusion**	♦ Counting Recalibration (continued) ♦ Demonstration of the Estimate Method ♦ Choice to review one of the workshops (i.e. polishing, mounting,…) ♦ PoDFA examination ♦ Conclusion and questions

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