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 mm²/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 | ♦ 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 | ♦ 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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