



Powder and Bulk Solids Academy: Basics of Pneumatic Conveying Schedule

Day 1

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| 9:00 am | Welcome | Todd Smith, Kansas State University |
| 9:15 am | Components of a pneumatic conveying system - overview and demonstrations | Todd Smith, Kansas State University |
| 10:30 am | Break | |
| 10:45 am | Air volume change Dilute phase pneumatic conveying Pressure v. vacuum | Todd Smith, Kansas State University |
| 11:30 am | Dilute phase pressure and vacuum system demonstrations | Todd Smith, Kansas State University |
| 12:30 pm | Conclusion of day 1 | Todd Smith, Kansas State University |

Day 2

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| 9:00 am | Introduction to case study | Todd Smith, Kansas State University |
| 9:15 am | Project step 1: Material properties application | Pat Mahoney, Coperion K-Tron |
| 9:45 am | Project step 2: Feeding devices | Pat Mahoney, Coperion K-Tron |
| 10:30 am | Break | |
| 10:45 am | Project step 3: Blowers | Pat Mahoney, Coperion K-Tron |
| 11:15 am | Project step 4: Filters and cyclones | Pat Mahoney, Coperion K-Tron |
| 12:00 pm | Equipment discussion: Blowers and filters | Pat Mahoney, Coperion K-Tron and Todd Smith, Kansas State University |
| 1:00 pm | Conclusion of day 2 | Todd Smith, Kansas State University |

All times are in central time zone.

Schedule is subject to change. A final schedule will be provided to attendees on course start date.



Day 3

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| 9:00 am | Comments from days 1 and 2 | Todd Smith, Kansas State University |
| 9:15 am | Project step 5: Piping and ancillary equipment | Pat Mahoney, Coperion K-Tron |
| 10:00 am | Project step 6: Application of valves | Justin Christiancy, Vortex |
| 10:45 am | Break | |
| 11:00 am | Vacuum sequencing systems - overview and demonstrations | Todd Smith, Kansas State University |
| 12:00 pm | Overview of dense phase conveying | Todd Smith, Kansas State University |
| 12:30 pm | Conclusion of day 3 | Todd Smith, Kansas State University |

Day 4

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| 9:00 am | Comments from day 3 | Todd Smith, Kansas State University |
| 9:15 am | Overview of dense phase conveying (continued) | Todd Smith, Kansas State University |
| 9:30 am | Demonstration of dense phase conveying systems | Todd Smith, Kansas State University |
| 10:15 am | Sizing of Bins, Hoppers and Silos Flow Problems and Flow Aids | Dr. Raju Dandu, Kansas State University |
| 11:00 am | Break | |
| 11:15 am | Basic instrumentation and safety | Steve Reed, Kasa |
| 12:15 pm | Course conclusion | Dr. Raju Dandu and Todd Smith, Kansas State University |

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