



Compost Facility Operator Training

Washington State University - Puyallup, WA

October 15-19, 2018

Day 1 - Monday (Agenda subject to minor changes)

Oct. 15, 2018

| Time | Topic | Time | Instructor |
|----------------------------------|---|---|---------------------------|
| 7:30 | Registration (coffee provided) | 10 min | |
| 7:40 | Orientation (meet instructors; review agenda) Welcome, Quiz, & Compost Sample Round-up | 35 min | Michele Riggs & Andy Bary |
| 8:15 | Biology of the Compost Pile | 60 min | Craig Cogger |
| 9:15 | Break | 15 min | |
| 9:30 | Composting: The Manufacturing Process | 70 min | Tamara Thomas |
| 10:40 | Class Introductions | 35 min | All |
| 11:15 | Germ City | 20 min | Andy Bary |
| 11:35 | Fieldwork Safety Reminders | 15 min | Andy Bary |
| 11:50 | Lunch (provided) | 60 min | |
| 12:50 | Feedstock Intro & Establish Groups for Fieldwork | 30 min | Craig Cogger |
| 1:20 | <u>Field Demonstrations</u> - Walk across street | 10 min | |
| 1:30–2:30 30 minutes/station | Station A Feedstock Preview, Pile Bulk Density (BD) and Free Air Space (FAS) <i>Instructor: Craig Cogger</i> | Station B Hand Squeeze Test (% moisture) <i>Instructors: Michele Riggs</i> | |
| 2:40 -3:40 30 minutes/station | Station C Aerated Static Pile (ASP) Demo/Discussion <i>Instructor: Tamara Thomas</i> | Station D Evaluate Pre-Built Compost Piles (temperature, odor and moisture content) <i>Instructor: Nehemias Chalma</i> | |
| 3:40 | Return to Classroom | 10 min | |
| 3:50 | Homework, Evaluation | 10 min | |
| 4:00 | Adjourn | | |

Remember to turn in Monday's evaluation form!



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Day 2 – Tuesday (Agenda subject to minor changes)

Oct. 16, 2018

| Time | Topic | Time | Instructor |
|-------|---|---------------------------------------|--|
| 7:30 | Review agenda, Drawing for Prizes | 15 min | Michelle A. & Michele R. |
| 7:45 | Compost Recipe, Pile Building Instructions & Recipes In Groups | 75 min | Andy, Michele, and Instructors |
| 9:00 | Walk Across the Street | 10 min | |
| 9:10 | Build-Your-Own (BYO) Compost Pile | 110 min | All |
| 11:00 | Return to Classroom | 10 min | |
| 11:10 | Compost Odor Science and Management | 65 min | Tim O'Neill |
| 12:15 | Lunch (provided) | 45 min | |
| 1:00 | Marketing Compost | 45 min | Susan Thoman (Michele) |
| 1:45 | Designing a Compost Facility | 40 min | Tim O'Neill |
| 2:25 | Safety – Protecting Yourself, Your Customers & Your Compost, Fires | 30 min | Nehemias Chalma |
| 2:55 | Break | 10 min | |
| 3:05 | Homework Assignment/Tour Day Reminders | 5 min | Michelle Andrews |
| 3:10 | Field Demos – Walk Across Street | 10 min | |
| 3:20 | Screening Demo Tom Walters, Andy Bary | Sampling Demo Michele Riggs | 35 min per station groups/station (3:20-3:55, 4-4:35) |
| 4:35 | Collect Data at BYO Compost Piles (on your own) | 15 min | |
| 4:50 | Return to Classroom, Evaluation | 20 min | |
| 5:10 | Adjourn | | |

Remember to turn in Tuesday's evaluation form!



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October 15-19, 2018

Day 3 – Wednesday (Agenda subject to minor changes)

Oct. 17, 2018

| Time | Topic | Time | Instructor |
|----------------|---|------------------------|--------------------|
| 7:15 | Review Agenda and Homework, Raffle | 30 min | Andy & Michelle A. |
| 7:30 | Board Bus at WSU-Puyallup, Allmendinger Center (Bring your own coffee and breakfast treats!) | 2.5 hr (Drive Time) | Michelle A |
| 10:15 | Town of La Conner WWTP | 60 min | |
| 11:15 | Board Bus; Travel to (Lunch Provided On Bus) | 50 min (drive time) | Michelle A |
| 12:05 12:20 | Restroom break at Cedar Grove Cedar Grove Everett | 15 min 75 min | |
| 1:35 | Board Bus; Travel to | 20 min (drive time) | Michelle A |
| 1:55 | Bailey Composting | 60 min | Andy |
| 2:55 | Board Bus; Travel to WSU/Puyallup Complete Evaluation on Bus. | 30 min (drive time) | Michelle A |
| 4:15 | Walk Across Street. Check Piles & Collect BYO Data. (on your own) | 30 mins | |
| 5:10 | Adjourn When Done Checking Piles. | | |
| 6:00 | Social Night | The Ram | Michele R |

Remember to turn in Wednesday's evaluation form!



Compost Facility Operator Training

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October 15-18, 2017

Day 4 – Thursday (Agenda subject to minor changes)

Oct. 18, 2018

| Time | Topic | Time | Instructor |
|-----------|---|--|---|
| 7:30 | Solvita Set-Up (See Solvita instructions in "Thursday" section in binder) | 15 min | Andy |
| 7:45 | Review Agenda & Homework, Raffle Drawing | 30 min | Michelle A. & Michele R. |
| 8:15 | Compost Stability | 20 min | Michele R. |
| 8:35 | Solvita (cont.) | 10 min | Andy |
| 8:45 | Soil Science 101 | 60 min | Craig |
| 9:45 | Compost Quality Considerations by End-Use | 40 min | Andy |
| 10:25 | Calculate Compost Application Rate | 15 min | Craig |
| 10:40 | Break | 15 min | |
| 10:55 | Panel Discussion – Compost End-Users <i>David McDonald, Seattle Public Utility; Sam Schaefer-Joel, WSDA; Nate Stacey, WSU-Puyallup & Juli Hartwig, WSDOT</i> | 105 min | Michelle A. (moderator) |
| 12:40 | Lunch (provided) <i>Optional: Homework Help Available</i> | 45 min | |
| 1:25 | Solvita Demo | 30 min | Instructors |
| 1:55 | <u>Field Demonstrations</u> – Walk to Stations in Field Near Parking Lot | 5 min | |
| 2:00-3:35 | Low Impact Development (LID) Ani Jayakaran | Compost Application Rates Andy | Compost Use In Stormwater Control Michele |
| 3:35 | Walk to Pre-Built Compost Piles | 10 min | |
| 3:45 | Collect Data On Pre-Built Piles (Temp, Moisture) | 15 min | All |
| 4:00 | Evaluate Pre-Built Compost Piles <i>Final Evaluation; Group Discussion; Lessons Learned</i> | 45 min | Andy |
| 4:45 | Collect BYO Pile Data | 10 min | All |
| 4:55 | Return to Classroom | 10 min | |
| 5:05 | Homework Assignment, Exam Tips, Evaluation | 10 min | |
| 5:15 | Adjourn | | |

Remember to turn in Thursday's evaluation form!



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Day 5 – Friday (Agenda subject to minor changes)

Oct. 19, 2018

| Time | Topic | Time | Instructor |
|-------|---|--------|-------------------|
| 7:30 | Review Agenda & Homework, Drawing for Prizes | 25 min | Andy |
| 7:55 | Walk Across the Street | 10 min | |
| 8:05 | Collect Data at BYO Compost Piles (After You Collect Your Data, Give Your Data Sheet to Craig) | 15 min | All |
| 8:20 | Field Demo: Break into BYO Piles and Evaluate. Final Evaluation; Group Discussion; Lessons Learned | 45 min | Andy |
| 9:05 | Return to Classroom | 10 min | |
| 9:15 | Panel Discussion - Compost Facility Regulations (Mike Shults, ORCAA; Greg Stegman & Mary Harrington, WA Dept. of Ecology; Ann Alfred, Snohomish County Health) | 75 min | (moderator) |
| 10:30 | Break | 15 min | |
| 10:45 | Panel Discussion – Compost Operators Samantha Fleishner, Waste Connection & Jeff West, Olympic Organics | 90 min | (moderator) |
| 12:15 | Lessons from the Compost Piles Review the Week's Data; Q&A | 15 min | Andy; Instructors |
| 12:30 | Lunch (provided) | 30 min | |
| 1:00 | Evaluations; Closing thoughts | 15 min | All |
| 1:15 | Exam (Adjourn when finished) | | |

Remember to turn in Friday's evaluation form!