



MANUFACTURING UPDATE

Newsletter for the Regional Business Services Team - Advanced Manufacturing Sector

9/11/15

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September 2015

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EVENTS

HAVE QUESTIONS??

Send your questions to [Barbee Williams](#) or [Steve Strain](#)

Your question will be answered promptly and also posted (confidentially) and answered in the next issue

Regional Business Services Team Assembles

Here we go! The Regional Business Services team members have been a “Team” now for about a month and a half. We have been in trainings and meetings to discuss and build our processes, with many discussions on how we communicate with each other, the WorkSource Centers and Employers. As we continue to discover & build the “wheel”, we will be visiting the centers often as we meet with staff, employers and job seekers. Once we have all of our tools in place, our “offices” will be wherever we are, physically.



Barbee Williams & Steve Strain are full time Regional Business Specialists for Mfg and Paula Wenzl will work with us half time and half time with another of the sector teams.

Contact info for Barbee, Paula & Steve are on the back page of this newsletter.

New Manufacturing Newsletter

This newsletter, **MANUFACTURING UPDATE**, has been created to help the Manufacturing Reps stay connected with the WorkSource Centers and be part of the pipeline of continuous information regarding manufacturing trends, recruitments, etc. We’re not sure how often you will see this newsletter. We are thinking bi-monthly to start and see if we need to do it more or less often.

UPCOMING HIRING EVENTS

On **September 11th**, the Mfg. Reps are hosting a job fair at **WorkSource Portland Central** from **9:00am to 11:00am** for EVRAZ Oregon Steel Mill. Here is a link to the flyer for this event: http://wspmetechu.weebly.com/uploads/1/1/7/1/11711256/evraz_hiring_event_flyer_-_sept_11_2015.pdf



These are heavy industrial production positions in a noisy and dirty environment. Most positions require steel-toed boots and a hard hat. (hard hat is furnished by EVRAZ).

Inside this issue:

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"UPCOMING HIRING EVENTS" continued from page 1



Clackamas Community College—Gregory Forum

On **Thursday, September 17th**, the Regional Business Services Mfg Reps are hosting a **"Manufacturing Only"** job fair at Clackamas Community College from 9:00am to 12:00pm. This event will feature 30 companies hiring for manufacturing types of positions. We are sending out a Fast Pass for the event and will begin matching listings for the event as they come in.

Please refer any job seekers with manufacturing experience OR job seekers with an interest in a manufacturing position to this job fair.

Here is a link to the flyer for this event:

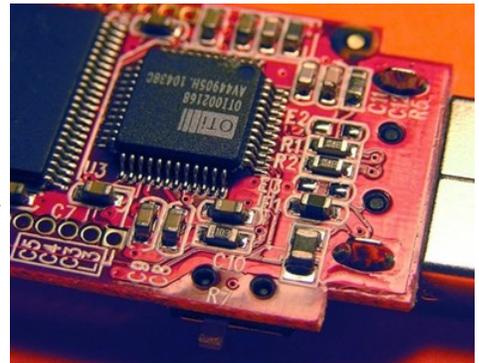
http://wspmetechu.weebly.com/uploads/1/1/7/1/11711256/clackamas_jf_flyer-js.pdf

INDUSTRY SPOTLIGHT

The intent of this section of this newsletter is to inform and educate on current trends & methods in manufacturing.

SURFACE MOUNT TECHNOLOGY (SMT)

Surface-mount technology (SMT) is a method for producing electronic circuits in which the components are mounted or placed directly onto the surface of printed circuit boards (PCBs). An electronic device so made is called a **surface-mount device (SMD)**. In the industry it has largely replaced the through-hole technology construction method of fitting components with wire leads into holes in the circuit board. Both technologies can be used on the same board for components not suited to surface mounting such as large transformers and heat-sinked power semiconductors.



An SMT component is usually smaller than its through-hole counterpart because it has either smaller leads or no leads at all. It may have short pins or leads of various styles, flat contacts, a matrix of solder balls (BGAs), or terminations on the body of the component.

Surface-mount components on a USB flash drive's circuit board. The small rectangular chips with numbers are resistors, while



Assembly line with SMT placement machines

the unmarked small rectangular chips are capacitors. The capacitors and resistors pictured are 0603 (1608 metric) package sizes, along with a very slightly larger 0805 (2012 metric) ferrite bead. Not shown here, even smaller chip capacitors are 0402 (1005 metric) and 0201 (0603 metric) sizes.



Component actual sizes

For further reading on Surface Mount Technology, read the following Wikipedia article:

https://en.wikipedia.org/wiki/Surface-mount_technology

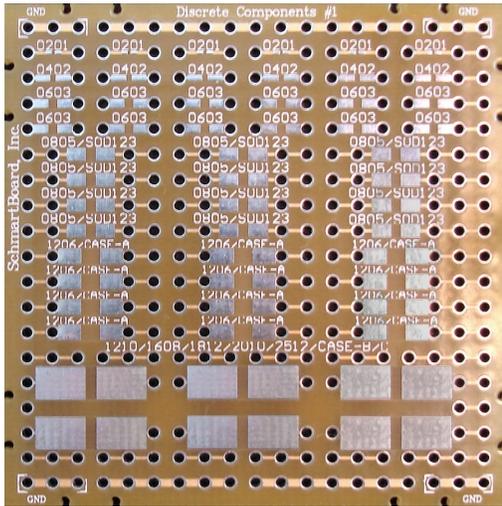
Click on the link below for a virtual tour of a **SMT Manufacturing & Assembly Factory** (55 minutes) It's not necessary to watch the entire video:

<https://youtu.be/bTij7Juj5qE>

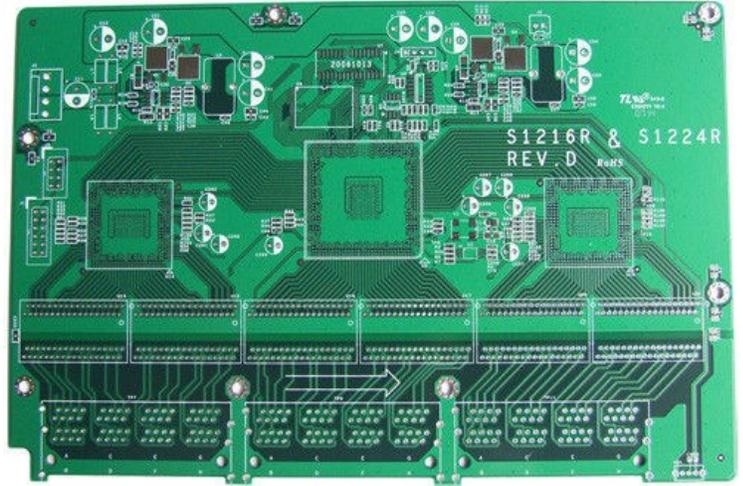


Surface Mounted Technology (SMT) vs. Through-Hole Technology

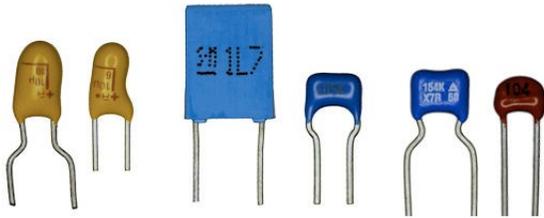
Blank Through-Hole circuit board



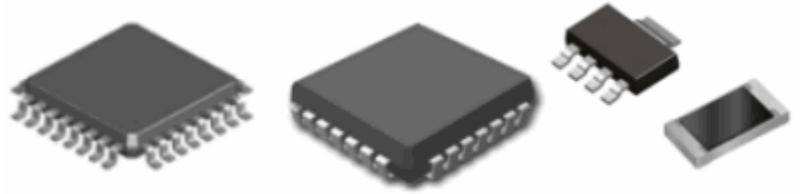
Blank Surface Mounted Circuit Board



Through-Hole components



Examples of Surface Mounted Components



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Support Business, Promote Employment

HOT JOBS

Enhanced Job Listings

[Solderer Level II - # 1438408](#)

[Manufacturing Operator - #1438644](#)

[Senior Administrative Specialist - # 1438423](#)

[Inside Sales Rep - #1434045](#)

[CNC Machinist - #1433851](#)

[Buyer - #1433831](#)

Hard to Fill Listings

[SMT Operator # 1426172](#)

[SMT Operator # 1424314](#)

[SMT AOI Operator - #1424301](#)

[SMT Manufacturing Technician - #1413917](#)