

Tech 1 (Foundations of Tech Pt I)  
Assignments and Lecture Information

Project 2 – *Manufacturing and Construction*

**Terms (Define)**

1. Manufacturing
2. Casting and molding
3. Forming
4. Separating
5. Conditioning
6. Assembling
7. Finishing

**Concepts (Explain)**

1. Primary processing
2. Secondary processing
3. Raw materials
4. Manufacturing systems
5. Producing products
6. Marketing products

**Teaming (This section should be posted to the Google Group Blog)**

- Forming
  - Getting to know each other and getting comfortable with each other
  - Learn your own roles and the roles of your team members
  - Define the task
  - Discuss what needs to be done to complete the task
- Norming. Thus far you have gone through the "forming" process of team building. Tuckman (n.d.) as cited by Smith (2005) described this process as "Groups initially concern themselves with orientation accomplished primarily through testing. Such testing serves to identify the boundaries of both interpersonal and task behaviors. Coincident with testing in the interpersonal realm is the establishment of dependency relationships with leaders, other group members, or pre-existing standards. It may be said that orientation, testing and dependence constitute the group process of forming" (Para 6).

By this time you should have an understanding of each member's strengths and weaknesses. The next step in the team building process is "storming". Tuckman (n.d.) as cited by Smith (2005) further identified the next step in the team-building as "characterized by conflict and polarization around interpersonal issues, with concomitant emotional responding in the task sphere. These behaviors serve as resistance to group influence and task requirements and may be labeled as storming" (Para 7).

Your team charter should identify each team member and their Google Group login name and then discuss inter and intra-personal issues you have encountered that have caused problems within in your group (e.g. over achievers, under achievers, not actually working with a team, etc).

Further, you should discuss solutions you have developed to deal with these issues and how they

can be overcome during this assignment (Manufacturing = MFG).

At this point in the class, you should be responding, politely, to other's comments within this group.

Please remember to keep your writing scholarly by using complete sentences, and checking your spelling and grammar.

Reference: Smith, M.K. (2005). Bruce W. Tuckman: Forming, storming norming and performing in groups. Retrieved March 5, 2007 from <http://www.infed.org/thinkers/tuckman.htm>.

**Assignment Part I** - Select your favorite “toy” and chart and explain the manufacturing process of that “toy” from your house back to the concept’s inception. This should be very detailed including manufacturing of ALL parts, (including packaging), and transportation.

**Part II** - Visit [http://www.sme.org/cgi-bin/communities.pl?/communities/assoc\\_home.htm&&SME&](http://www.sme.org/cgi-bin/communities.pl?/communities/assoc_home.htm&&SME&) and investigate the different “Technical Communities”. Identify at least one thing in each of the eight (8) areas and how it relates to your future.

**DQ Topic (This should be posted to the Google Groups Blog**

Visit the following manufacturing website sponsored by the Society of Manufacturing Engineers (SME): <http://www.manufacturingiscool.com/>. Identify five (5) items and explain what you learned and what you thought about the website.