ECS 3361: Social Issues and Ethics in ECS

Project Assignment

High level Requirements

- Work in teams. Every one must contribute to get credit.

- Do some initial research and pick a topic (from list in syllabus)

- Elect a project team leader (for the entire duration)

- Team leader to upload a weekly project update (What, When, Who and progress) to the update assignment on e-learning. Use word or pdf file format . Each weekly update is worth 5 points of your project grade!

- As a team, develop a PowerPoint presentation and attach it to the project assignment by the due date. You can upload only once.

- Team will pick presenters (at least four presenters but everyone needs to be present and able to answer questions)

  – Deadline for final submission is Friday March 6, 11:59pm with -2pt penalty for each day after that until Sunday March 8, 11:59pm.

  No project file will be accepted after that.

Project Requirements

R. Mezenner

What is expected in the presentation file?

- Slide with topic, team number and member names
- Background and facts of the event
- Identify actions taken or not taken or issues to analyze (may use 5 whys and/or 5M tools)
- Pick two actions/inactions or issues and analyze them using two workable ethical theories for each action/inaction or issue.
- For each action/inaction or issue, list two clauses from any code of ethics that were or will be violated and show how. Must cover at least two codes of ethics.
- Conclusion, lessons learned and references

What is expected for the oral presentation?

- At least 4 members must deliver the presentation. Dress may be formal or casual (no flip flops or shorts).

- Presentation should last 15 +/- 1min followed by ~2 min for Q/A and/or comments.

- Powerpoint presentation file name format is as follows: topic_team #.ppt

- Updates file format is update #_team #.

- Team delivery is graded. Do rehearse as a team.

Project Requirements

R. Mezenner

Grading Rubric

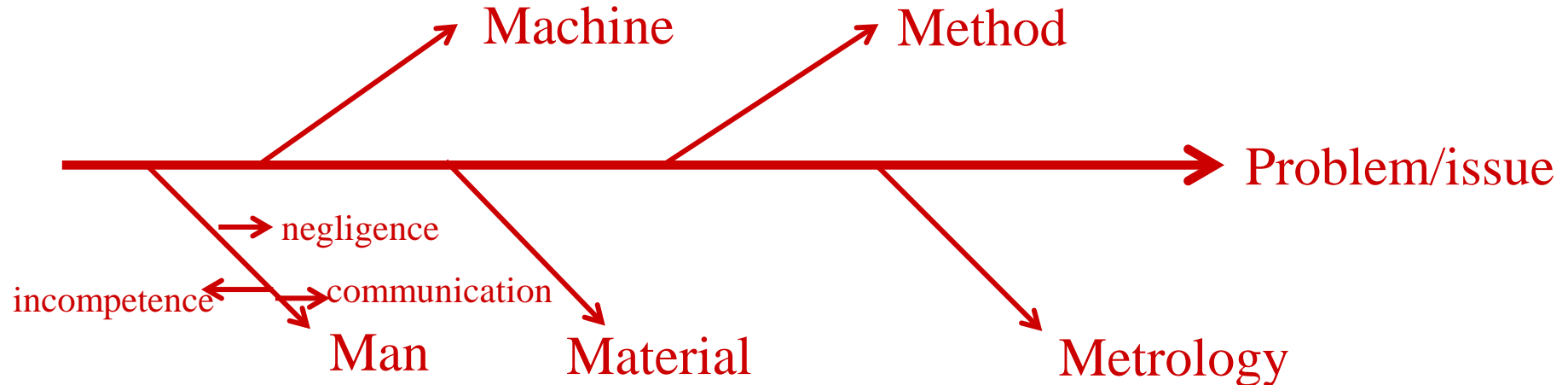- Updates: 4x5=20pts.
- Delivery/Presence: 10 pts.
- Background/Facts   15 pts.
  - identify actions/inactions/issues
- Ethical analysis of TWO actions/inactions/issues using two different workable ethical theories for each   4x5=20 pts.
  - Action/inaction/issue 1   Theory A   Theory B

  - Action/inaction/issue 2   Theory C   Theory D

- At least two clauses from any code of ethics applied to each of the above action/inaction/issue (must cover at least two codes of ethics)   4x5=20 pts.

- Conclusion (recap of ethical analysis)   5 pts.
- lessons learned/recommendations   5 pts.
- References   5 pts.

Tools to identify action/issue

- **Fishbone diagram (5M's)**

Machine   Method

Problem/issue

→ negligence

incompetence ← → communication

Man   Material   Metrology

- **5 whys** (can be less or more than 5: keep asking why until you get to the root cause)
  - Shows interaction between causes
  - Most effective when problem involves human factors

5 whys example

• A client is unhappy because they received parts late

1. Why? Parts shipped later than expected by customer

2. Why did parts not ship on time? Manufacturing took longer than scheduled

3. Why did manufacturing take longer? Time needed to manufacture the part was underestimated in the project schedule

4. Why? Missed some process steps in the schedule and underestimated time to complete some others

5. Why? Time estimating and work breakdown structure used were not adequate

Action: Assign more experienced resource to develop a schedule and/or train resources on work breakdown process.