

# Topics

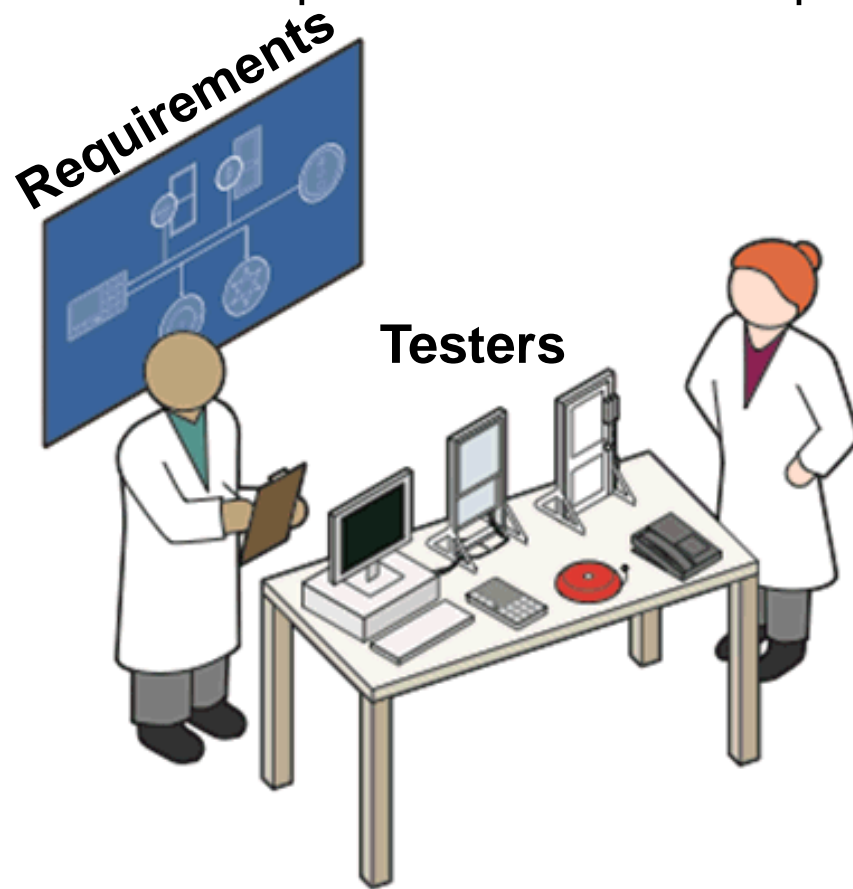
- Product Development 2 Process Areas
- Technical Solution (TS)
- Product Integration (PI)
- Verification (VER)
- Validation (VAL)
- Product Development 2 Summary
- Exercise 4: Impact of an Engineering Change

# Verification (VER)

An Engineering Process Area at Maturity Level 3

## Purpose

Ensure that selected work products meet their specified requirements.



# Relevant Terminology

## Verification

Confirmation that work products properly reflect the requirements specified for them

In other words, verification ensures that “you built it right.”

## Validation

Confirmation that the product or service, as provided (or as it will be provided), will fulfill its intended use

In other words, validation ensures that “you built the right thing.”

*Both are applicable throughout the product development lifecycle.*

# When Verification Is Not Done Well...

There is disagreement among technical staff as to whether the different components meet the requirements.

Product reliability suffers because defects are not detected or corrected prior to customer release.

Added rework occurs because defects that could have been caught early escape into later lifecycle phases.

# Verification Goals

**SG 1**

## Prepare for Verification

Preparation for verification is conducted.

**SG 2**

## Perform Peer Reviews

Peer reviews are performed on selected work products.

**SG 3**

## Verify Selected Work Products

Selected work products are verified against their specified requirements.

The process area also has generic goals to support institutionalization.

# Verification Specific Practices

## SG 1

### Prepare for Verification

- SP 1.1 Select Work Products for Verification
- SP 1.2 Establish the Verification Environment
- SP 1.3 Establish Verification Procedures and Criteria

## SG 2

### Perform Peer Reviews

- SP 2.1 Prepare for Peer Reviews
- SP 2.2 Conduct Peer Reviews
- SP 2.3 Analyze Peer Review Data

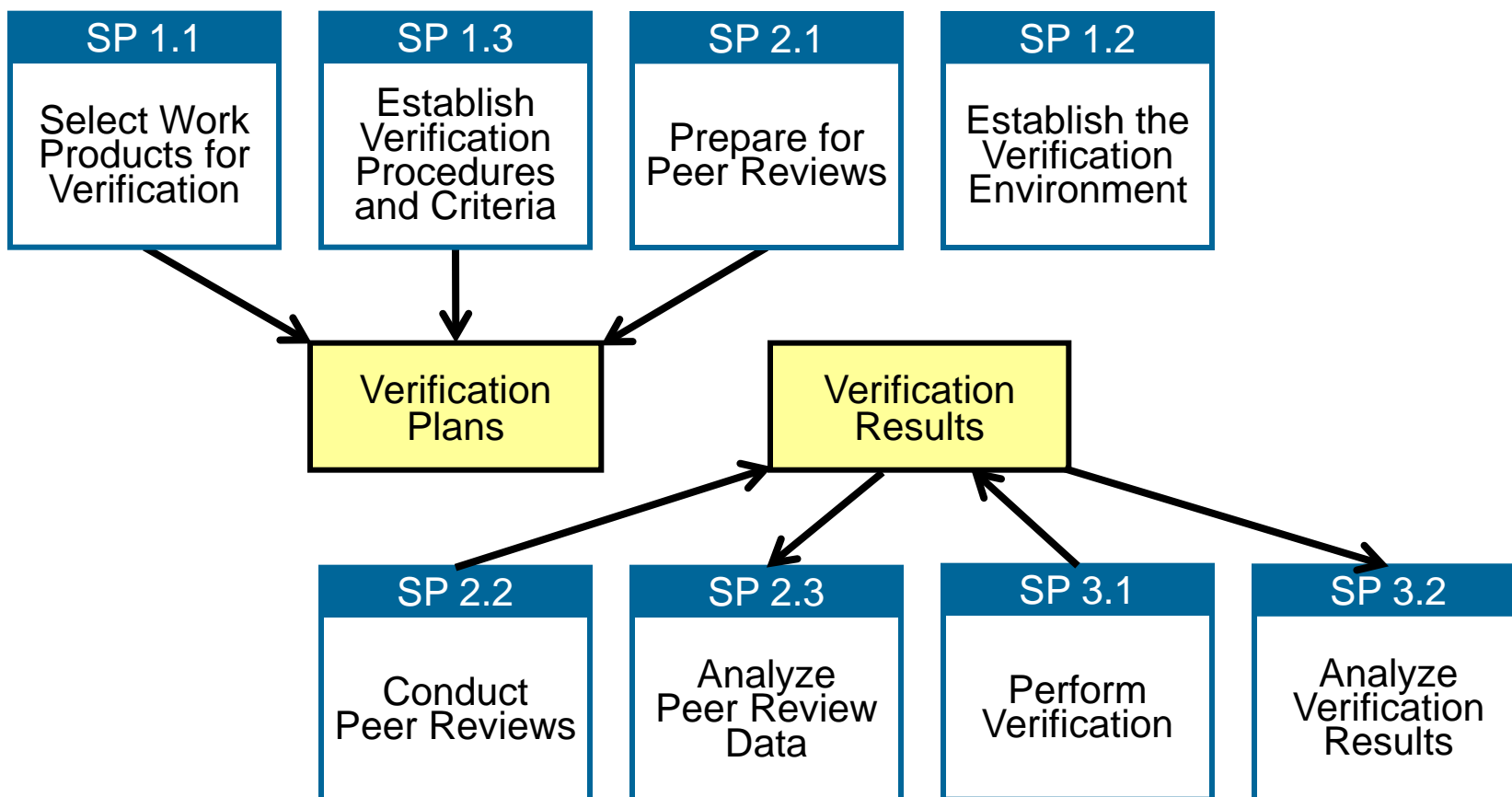
## SG 3

### Verify Selected Work Products

- SP 3.1 Perform Verification
- SP 3.2 Analyze Verification Results

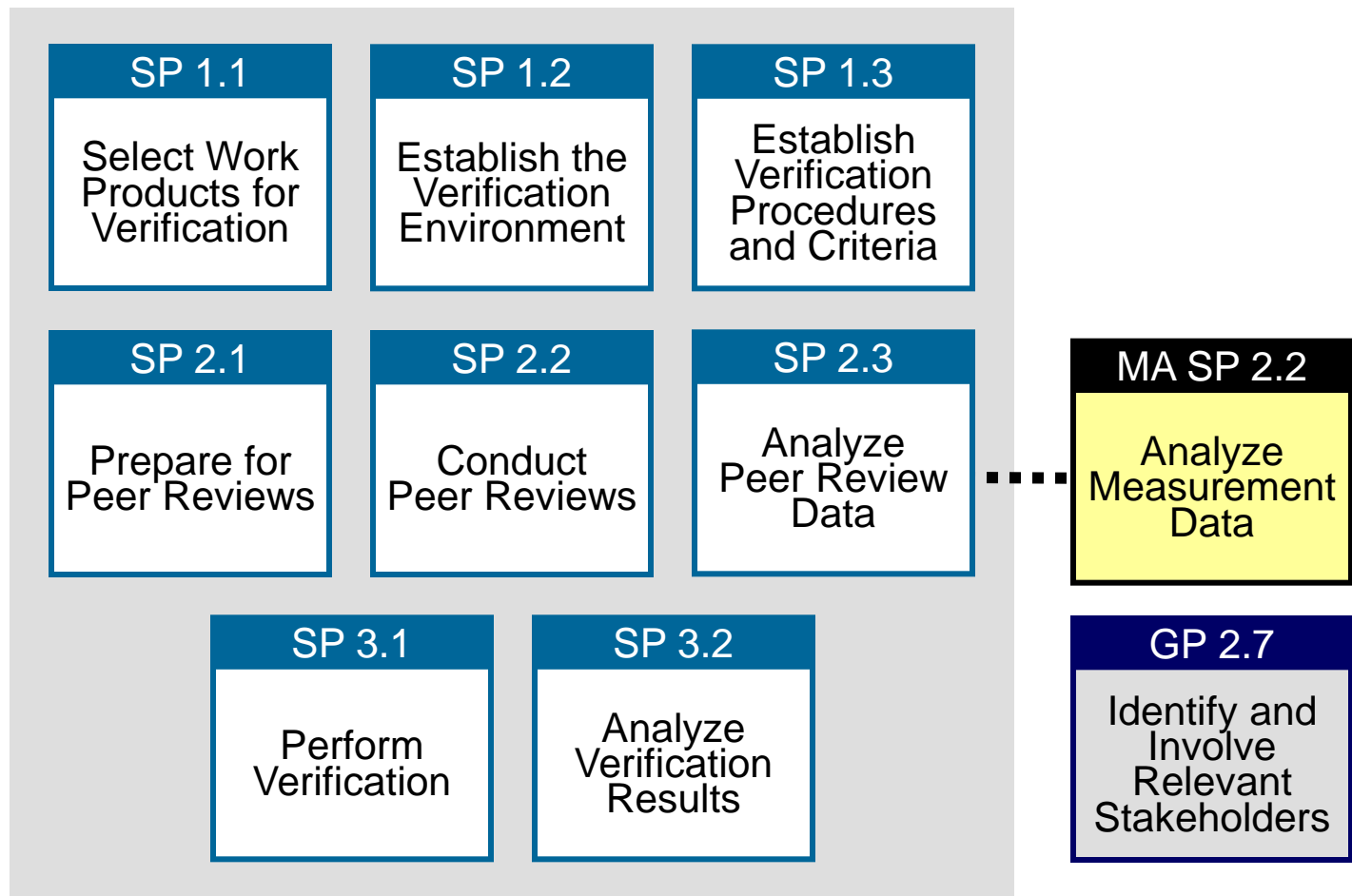
# Verification

## Sampling of Work Products



# Verification

## Sampling of PA and GP Relationships





# Verification

## Case Study Example Focus Area

