

Creating Each Part of the Workflow

1. Workflow Name

```
name: tutorial_pipeline_ga
```

- Sets the name shown in GitHub Actions.
-

2. Trigger: Manual Start

```
on:  
  workflow_dispatch:
```

- Enables manual triggering from the GitHub UI.
-

3. Jobs

```
jobs:  
  build_test:
```

- Defines a single job named `build_test`.
-

4. Runner and Steps



Important: Don't forget to add `steps:` before listing the steps inside a job.

```
runs-on: ubuntu-latest
steps:
  - name: Checkout code
    uses: actions/checkout@v4

  - name: Install Java 11
    uses: actions/setup-java@v3
    with:
      java-version: '11'
      distribution: 'temurin'

  - name: Build and Test
    run: mvn -B verify
```

- Uses Ubuntu as the runner and defines all the steps:
 - Checks out the code.
 - Installs Java 11.
 - Runs Maven to build and test the code.

Full Pipeline YAML

Place this in `.github/workflows/tutorial_pipeline.yml`

Full Example

```
name: tutorial_pipeline

on:
  workflow_dispatch:

jobs:
  build_test:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout code
        uses: actions/checkout@v4

      - name: Install Java 11
        uses: actions/setup-java@v3
        with:
          java-version: '11'
          distribution: 'temurin'

      - name: Build and Test
        run: mvn -B verify
```